

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND GAME
BUREAU OF MARINE FISHERIES

FISH BULLETIN No. 67

The Commercial Fish Catch of California for the Years 1945 and 1946

BY THE STAFF OF THE
BUREAU OF MARINE FISHERIES



1947



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FOREWORD

This is the tenth fish bulletin of a series begun in 1929 for the purpose of presenting detailed records of the State's commercial fish catch as well as other statistical information compiled by the Bureau of Marine Fisheries.

The cooperation of the Bureau of Patrol and Law Enforcement in the collection of the original material is gratefully acknowledged.

September, 1947

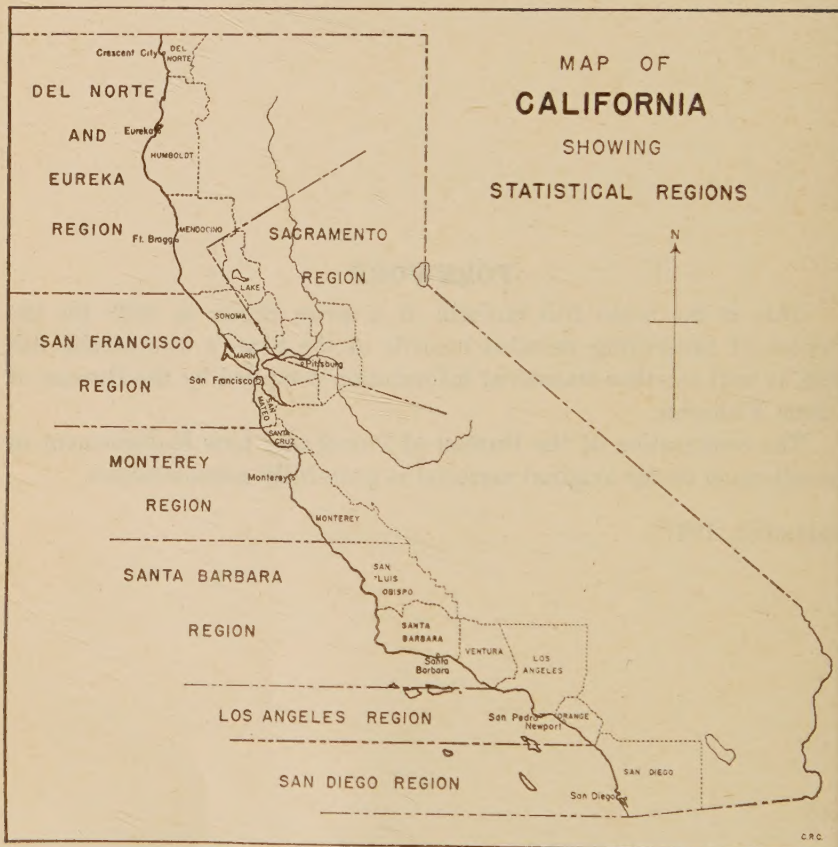


FIGURE 1

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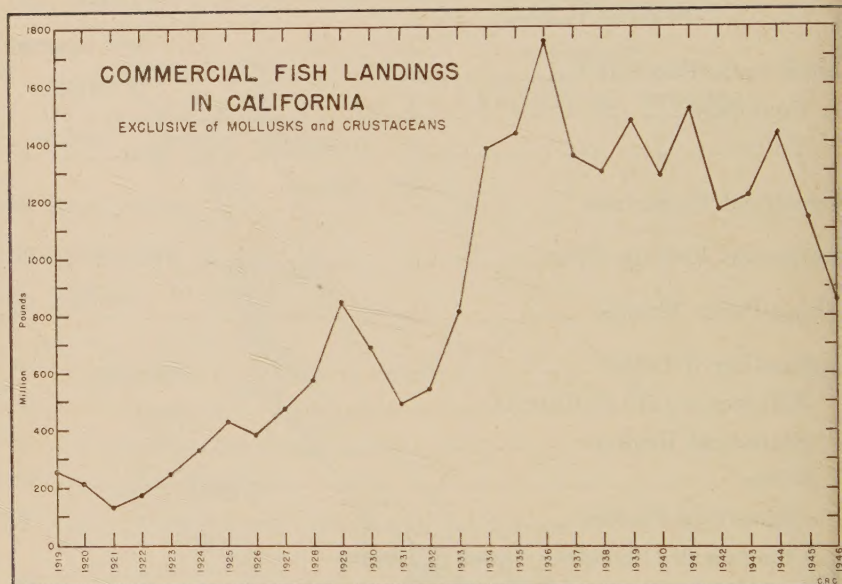


FIG. 2. Deliveries of sardines to reduction plant ships included for the year 1930 through 1938. These poundages were not included in similar charts published former catch bulletins. See page 7 of text for details.

TRENDS IN THE FISH CATCH

By GERALDINE CONNER, Bureau of Marine Fisheries
California Division of Fish and Game

POUNDAGE

There was a persistent demand for food after the termination of the war and all apparent factors indicated that the 1945 and 1946 commercial fish catches would continue the upward trend begun in 1943. Competition was keen among the buyers, canneries had increased their capacities and the fresh fish markets were fulfilling the needs of California's growing population. Fishermen were returning to their normal occupation; the fishing fleet had increased in numbers and the boats in size. Despite these factors the 1945 catch dropped and was, in fact, lower than it had been for the previous 11 years. The 1946 catch showed a further decrease of more than a quarter of a million pounds. (Fig. 2.)

The explanation of the foregoing lies in the fact that sardines have dominated the catch for 20 years, averaging about 75 percent of all landings. Therefore the trend of the sardine catch determines the trend of the total catch, thus obscuring the tenor of the remaining fisheries. The decline in the 1945 and 1946 total catches was due to the failure of the sardine fishery which yielded a total lower than any year since 1933.

For many years the sardine has been subjected to an intense fishery. In addition to the tremendous tonnage utilized by the California shore plants an added strain was placed upon the population between 1930 and 1938 when the floating reduction plants operated off this coast. The ships anchored in waters just outside the jurisdiction of the State and were supplied from the same reservoir of fish and by the same fishing fleet that delivered to the shore plants at Monterey and San Francisco. From the United States Department of Interior, Fish and Wild Life Service, we have secured the following record of deliveries made to these ships at sea.

Deliveries to Floating Reduction Plants Operating off the California Coast

<i>Year</i>	<i>Sardines in pounds</i>	<i>Year</i>	<i>Sardines in pounds</i>
1930-----	7,612,000	1935-----	266,246,000
1931-----	63,044,000	1936-----	508,018,000
1932-----	110,438,000	1937-----	180,060,000
1933-----	116,600,000	1938-----	87,778,000
1934-----	217,346,000		

In the catch bulletins which have preceded this issue there has been published a chart similar to Figure 2 which shows the yearly fish catch from 1919 through the current year. The graph in this bulletin varies from the former charts because we have added the sardine deliveries to the floaters.

During the period in which the floaters operated the sardine catch climbed to its highest recorded figure. In 1936 the shore plants reported to the State 956,000,000 pounds received and the federal record showed an additional 508,000,000 pounds delivered to the reduction plant ships. This catch of one and one-half billion pounds was three times greater than the amount produced by the state-wide fishery 10 years later in 1946. The

decline of the catch resulted chiefly from the failure of the sardine fishery at Monterey and San Francisco.

Central California was hit hardest by the collapse of the sardine fishery. Monterey was dealt a staggering blow because around the fishery was built one of her main industries. Similarly the San Francisco total was decreased 89 percent and Sacramento 81 percent.

Comparison of Regional Catch Totals

	Pounds	
	1945	1946
Eureka	28,754,000	32,392,000
Sacramento	43,244,000	8,051,000
San Francisco	161,937,000	17,690,000
Monterey	339,567,000	123,112,000
Santa Barbara	5,468,000	3,919,000
Los Angeles	531,118,000	593,114,000
San Diego	105,872,000	141,057,000

This localization of the sardine scarcity contributed directly to the record catch in the Los Angeles area in 1946. In former seasons vessels from the Northwest had come south to fish off Central California during the sardine season. With no fish available there, these boats continued down the coast to Southern California in company with a large part of the Monterey and San Francisco fleets. Los Angeles Harbor was congested in 1946 with the largest fleet that had ever fished these waters with the result that the local sardine catch was the highest on record for the area.

Further, contributing to the high Los Angeles landings were the exceptional tuna runs of 1945 and 1946. In addition to her record sardine landings, Los Angeles shared with San Diego the excellent tuna deliveries of these two years. The state-wide total for albacore in 1945 was 21,800,000 pounds, the highest ever reported, and the bluefin tuna runs were also good. Skipjack landings were high for both years, and yellowfin tuna catches reached 127,000,000 pounds in 1946 to exceed all former records.

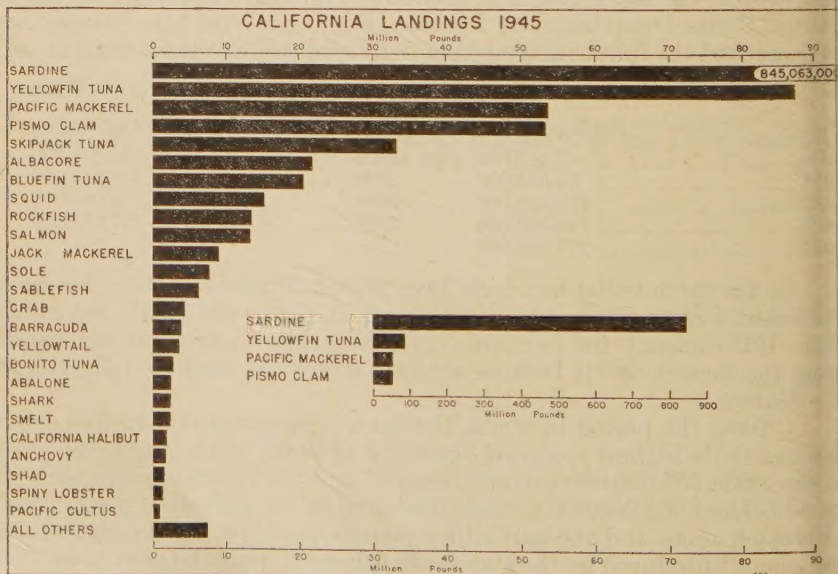


FIGURE 3

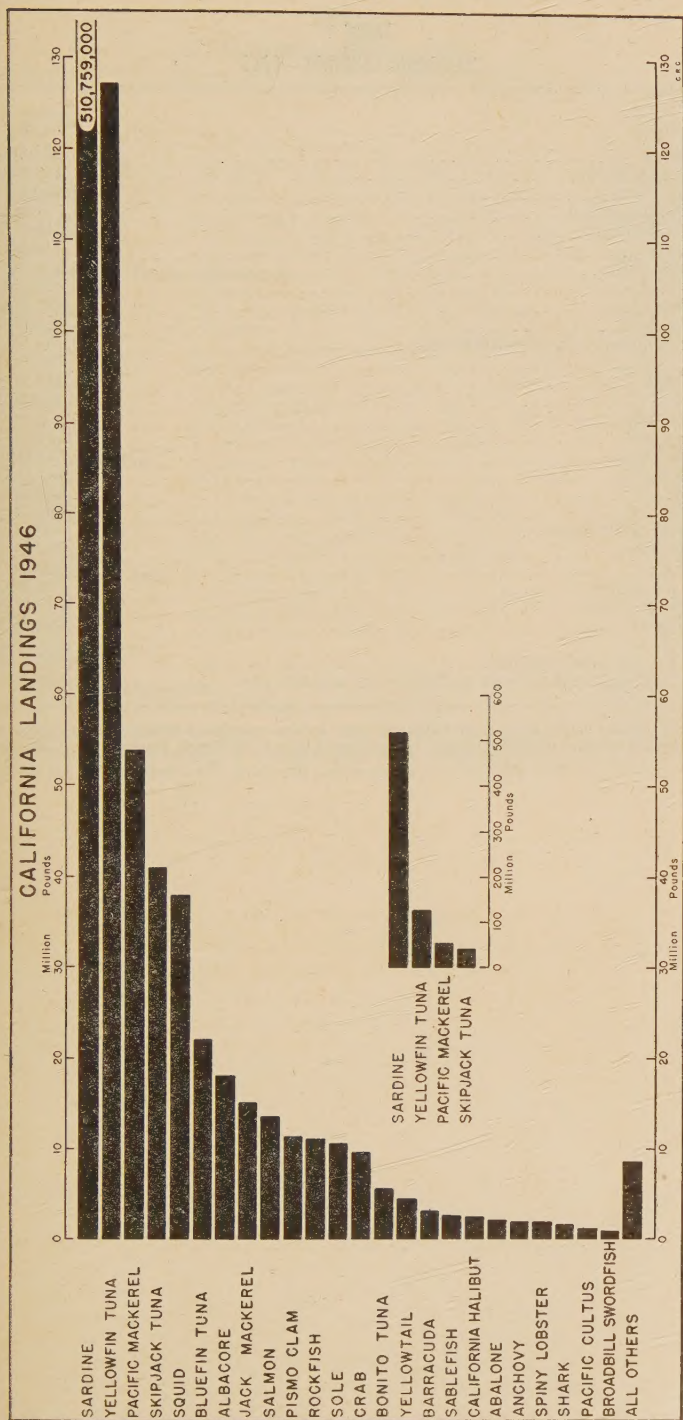


FIGURE 4

TABLE 1
CALIFORNIA LANDINGS—1945

<i>Species</i>	<i>Pounds</i>
Sardine.....	845,063,000
Yellowfin Tuna.....	87,448,000
Pismo Clam.....	53,440,000
Pacific Mackerel.....	53,717,000
Skipjack Tuna.....	33,348,000
Albacore.....	21,336,000
Bluefin Tuna.....	20,594,000
Squid.....	15,226,000
Salmon.....	13,381,000
Rockfish.....	13,286,000
Jack Mackerel (Horse Mackerel).....	9,033,000
Sole.....	7,755,000
Sablefish.....	6,259,000
Crab.....	4,346,000
Barracuda.....	3,873,000
Yellowtail.....	3,534,000
Bonito Tuna.....	2,714,000
Abalone.....	2,447,000
Shark.....	2,438,000
Smelt.....	2,369,000
California Halibut.....	1,805,000
Anchovy.....	1,617,000
Shad.....	1,484,000
Spiny Lobster.....	1,272,000
Pacific Cultus.....	759,000
All others.....	7,416,000
Yearly total pounds.....	1,215,960,000
Fish landings exclusive of mollusks and crustaceans.....	1,318,436,000

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and fresh fish dealers.

TABLE 2
CALIFORNIA LANDINGS—1946

<i>Species</i>	<i>Pounds</i>
Sardine.....	510,759,000
Yellowfin Tuna.....	127,247,000
Pacific Mackerel.....	53,875,000
Skipjack Tuna.....	41,088,000
Squid.....	38,025,000
Bluefin Tuna.....	22,032,000
Albacore.....	18,068,000
Jack Mackerel (Horse Mackerel).....	15,093,000
Salmon.....	13,658,000
Pismo Clam.....	11,478,000
Rockfish.....	11,173,000
Sole.....	10,569,000
Crab.....	9,644,000
Bonito Tuna.....	5,626,000
Yellowtail.....	4,562,000
Barracuda.....	3,107,000
Sablefish.....	2,659,000
California Halibut.....	2,500,000
Abaione.....	2,096,000
Anchovy.....	1,922,000
Spiny Lobster.....	1,918,000
Shark.....	1,605,000
Pacific Cultus.....	1,156,000
Broadbill Swordfish.....	859,000
Smelt.....	793,000
Shad.....	771,000
Sand Dab.....	679,000
All others.....	6,372,000
Yearly total pounds.....	919,334,000
Fish landings exclusive of mollusks and crustaceans.....	855,483,000

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and fresh fish dealers.

VALUE

Because of the difference in price between sardines and the tunas, the value of the catch to the fisherman did not follow the downward trend of poundage. (Figs. 5 and 6.) The value of the catch has risen steadily since 1939 when it was calculated at approximately \$19,000,000 for all species. By 1945 it had more than doubled this amount and in 1946 reached over \$45,000,000. During these years prices for all species were rising and the decrease in sardine poundage was more than offset by the higher price paid for other species. However, the upward trend of the curve is mainly due to the volume and the value of the tunas, which accounted for 51 percent of the value of all species in 1945, and 60 percent in 1946. Second in value were the sardines with 25 percent of the total in 1945 and only 16 percent in 1946. The effect of price on the total valuation may be seen in the following tabulations.

Prevailing Cannery Prices Per Ton

	1945	1946
Albacore -----	\$390	\$390 to \$410
Bluefin Tuna -----	190 to \$230	190 to 300
Bonito Tuna -----	155 to 195	155 to 235
Skipjack Tuna -----	180	180 to 290
Yellowfin Tuna -----	200	200 to 310
Sardines -----	\$22	\$40

Comparison of Regional Values

	1945	1946
Eureka -----	\$2,376,000	\$3,129,000
Sacramento -----	1,356,000	1,082,000
San Francisco -----	3,270,000	2,296,000
Monterey -----	4,640,000	3,009,000
Santa Barbara -----	706,000	734,000
Los Angeles -----	15,057,000	18,662,000
San Diego -----	11,266,000	16,433,000

Eureka and the far northern ports enjoyed their most remunerative year in 1946. In the Sacramento River area the loss to the sardine canneries was offset by the gain to the fresh fish trade during two years of record salmon runs. At Monterey a record catch of squid was packed for oriental export and its million-dollar value was slightly greater than that of sardines, which have been the mainstay of the port for so many years. Southern California ports, always high in fisheries value because of the tunas, attained a new peak.

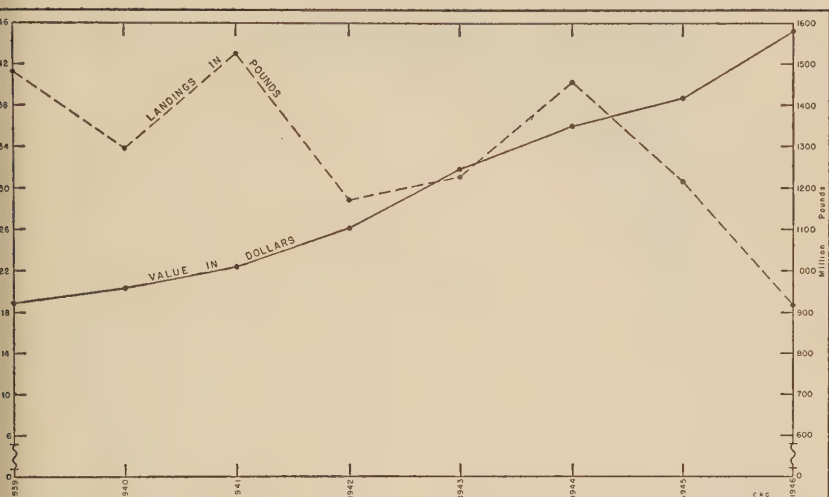


FIG. 5. California landings in pounds of fish and shellfish, 1939 through 1946, compared with the value to the fisherman. The decrease in poundage reflected the scarcity of sardines. The increase in value was due to the large volume and high price of the five tunas, with higher prices for all species a contributing factor.

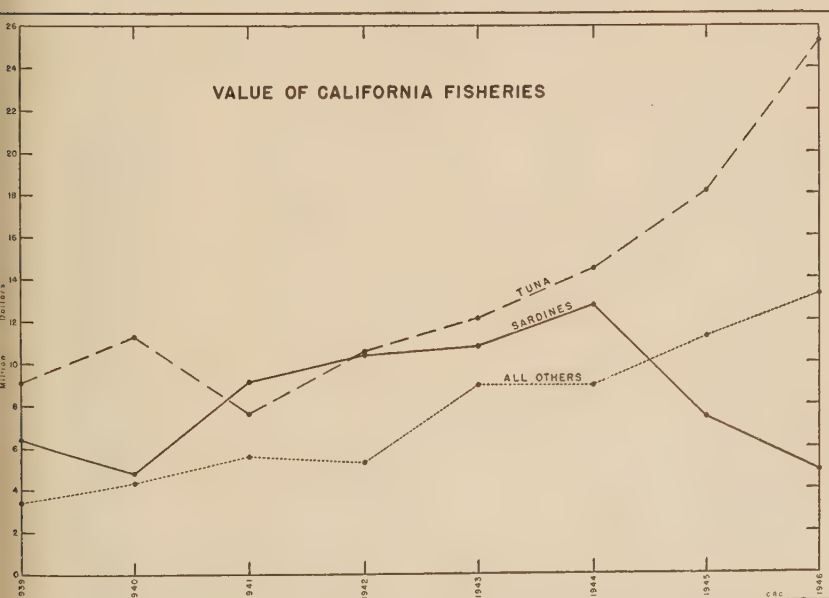


FIG. 6. Value of California fisheries to the fisherman, 1939 through 1946. The five species of tuna are grouped, albacore, bluefin, bonito, skipjack and yellowfin. "All others" includes shellfish, fresh market fish and cannery species other than sardines and tuna.

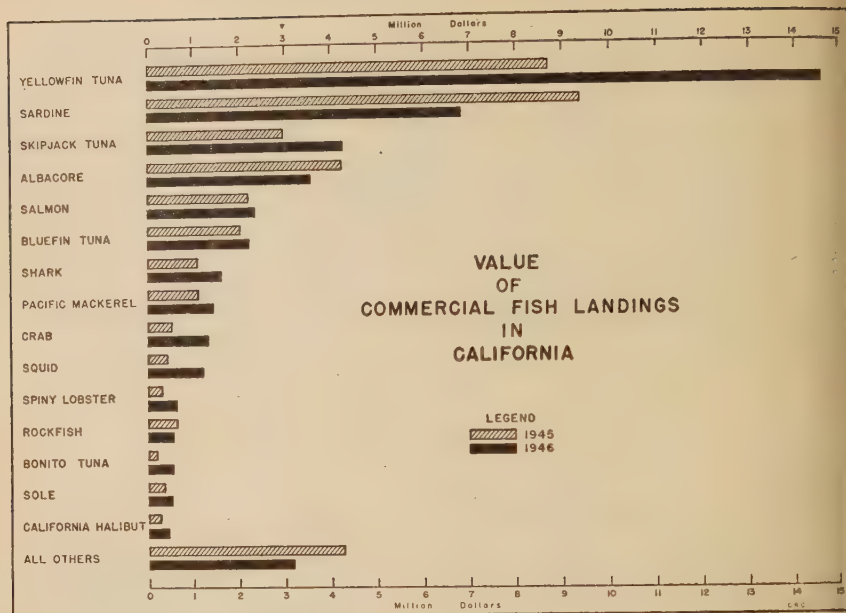


FIGURE 7

TABLE 3
VALUES OF COMMERCIAL FISH LANDINGS—1945

Species	Value
Sardine	\$9,407,000
Yellowfin Tuna	8,717,000
Albacore	4,158,000
Skipjack Tuna	2,982,000
Salmon	2,228,000
Bluefin Tuna	1,984,000
Pismo Clam	1,433,000
Pacific Mackerel	1,119,000
Shark	1,103,000
Rockfish	616,000
Crab	521,000
Sablefish	519,000
Barracuda	485,000
Squid	426,000
Sole	350,000
Spiny Lobster	302,000
Yellowtail	292,000
Abalone	280,000
California Halibut	263,000
Bonito Tuna	217,000
Smelt	156,000
Jack Mackerel	145,000
Broadbill Swordfish	110,000
Catfish	103,000
All other	754,000
Total value, 1945	\$38,670,000

TABLE 4
VALUES OF COMMERCIAL FISH LANDINGS—1946

<i>Species</i>	<i>Value</i>
Yellowfin Tuna.....	\$14,614,000
Sardine.....	6,853,000
Skipjack Tuna.....	4,283,000
Albacore.....	3,587,000
Salmon.....	2,375,000
Bluefin Tuna.....	2,246,000
Shark.....	1,615,000
Pacific Mackerel.....	1,431,000
Crab.....	1,319,000
Squid.....	1,215,000
Spiny Lobster.....	611,000
Rockfish.....	552,000
Bonito Tuna.....	536,000
Sole.....	506,000
California Halibut.....	433,000
Barracuda.....	399,000
Yellowtail.....	374,000
Jack Mackerel.....	327,000
Pismo Clam.....	296,000
Broadbill Swordfish.....	269,000
Sablefish.....	256,000
Abalone.....	254,000
White Sea-bass.....	117,000
Catfish.....	108,000
Pacific Cultus.....	102,000
All other.....	668,000
Total value, 1946.....	\$45,346,000

TABLE 5
CALIFORNIA COMMERCIAL FISH LANDINGS—1945
Values for Eureka Region, Indicating Leading Ports and Species

EUREKA REGION.....	\$2,376,000	28,753,877 pounds	
Eureka.....	\$1,355,800	Rockfish.....	\$419,900
		Sablefish.....	221,200
		Salmon.....	204,700
		Sole.....	187,800
		Shark.....	146,600
		Northern Halibut.....	40,100
		Crab.....	38,600
		Pacific Cultus.....	36,100
		Albacore.....	17,250
		Whitebait.....	11,000
		Sand Dab.....	6,300
		All other.....	26,300
Fort Bragg.....	\$751,900	Salmon.....	556,300
		Rockfish.....	83,400
		Sablefish.....	50,800
		Sole.....	19,700
		Pacific Cultus.....	13,400
		Shark.....	7,100
		Crab.....	5,700
		All other.....	15,500
Crescent City.....	\$219,100	Salmon.....	102,400
		Crab.....	91,000
		Sablefish.....	9,100
		Whitebait.....	5,100
		Pacific Cultus.....	3,500
		All other.....	8,000
Fields Landing.....	\$37,500	Sablefish.....	14,800
		Rockfish.....	9,200
		Sole.....	5,200
		Crab.....	4,300
		All other.....	4,000
Arcata.....	\$6,000	Whitebait.....	4,200
		Smelt.....	1,700
Point Arena.....	\$4,900	Salmon.....	3,900
		Pacific Cultus.....	1,000
Trinidad.....	\$800		

TABLE 6

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for Sacramento Region, Indicating Leading Ports and Species

SACRAMENTO REGION---	\$1,355,700	43,243,863 pounds	
Pittsburg-----	\$640,300	Salmon-----	\$484,100
		Catfish-----	72,900
		Shad-----	61,000
		Sardine-----	21,200
		All other-----	1,100
Benicia-----	\$256,100	Sardine-----	256,100
Martinez-----	\$217,200	Salmon-----	171,200
		Sardine-----	38,200
		Shad-----	7,500
		All other-----	300
Port Chicago-----	\$80,600	Sardine-----	80,600
Collinsville-----	\$72,600	Salmon-----	67,900
		Catfish-----	3,200
		All other-----	1,500
Sacramento-----	\$66,200	Salmon-----	53,900
		Catfish-----	10,000
		Shad-----	1,900
		All other-----	400
Stockton-----	\$20,900	Catfish-----	16,700
		Salmon-----	4,100
		All other-----	100
All other-----	\$1,800		

TABLE 7

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for San Francisco Region, Indicating Leading Ports and Species

SAN FRANCISCO REGION_ \$3,270,300		161,937,333 pounds	
San Francisco_-----	\$1,400,600	Sardine_-----	\$603,500
		Shark_-----	341,200
		Crab_-----	183,000
		Smelt_-----	103,600
		Sole_-----	59,200
		Salmon_-----	25,200
		Sand Dab_-----	11,300
		Perch_-----	11,200
		Shrimp_-----	7,600
		Anchovy_-----	7,000
		California Halibut_-----	5,700
		Starry Flounder_-----	5,500
		Pacific Herring_-----	5,400
		Sablefish_-----	5,100
		All other_-----	26,100
Richmond_-----	\$924,800	Sardine_-----	919,000
		Shrimp_-----	5,800
Bay (Bodega)_-----	\$394,800	Salmon_-----	154,400
		Shark_-----	81,300
		Crab_-----	73,600
		Sole_-----	35,100
		Abalone_-----	31,100
		Sand Dab_-----	3,600
		All other_-----	15,700
Point Reyes_-----	\$302,600	Salmon_-----	194,600
		Crab_-----	79,100
		Eastern Oyster_-----	8,500
		Abalone_-----	4,900
		Sablefish_-----	4,900
		All other_-----	10,600
McNear's Point_-----	\$118,900	Sardine_-----	117,600
		Shrimp_-----	1,300
Princeton-by-the-Sea_-----	\$98,000	Salmon_-----	52,900
		Crab_-----	20,400
		Sardine_-----	17,800
		Abalone_-----	4,100
		All other_-----	2,800
Oakland_-----	\$14,500	Crab_-----	14,400
		All other_-----	100
Tomaes Bay_-----	\$5,500	Pacific Oyster_-----	5,500
All other_-----	\$10,600		

TABLE 8

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for Monterey Region, Indicating Leading Ports and Species

MONTEREY REGION-----	\$4,639,600	339,566,856 pounds	
Monterey-----	\$3,849,900	Sardine-----	\$3,163,300
		Squid-----	415,600
		Rockfish-----	55,900
		Albacore-----	45,700
		Salmon-----	42,700
		Sablefish-----	23,000
		Abalone-----	19,800
		Pacific Mackerel-----	17,600
		Smelt-----	14,300
		Kingfish-----	11,500
		Jack Mackerel-----	10,200
		Sole-----	8,500
		Shark-----	6,200
		All other-----	15,600
Santa Cruz-----	\$388,500	Sablefish-----	186,300
		Salmon-----	99,900
		Albacore-----	26,100
		Rockfish-----	22,500
		Sole-----	16,800
		Sardine-----	9,000
		Shark-----	8,500
		Sand Dab-----	5,000
		Crab-----	4,700
		All other-----	9,700
Moss Landing-----	\$400,900	Sardine-----	389,700
		Squid-----	8,300
		Crab-----	2,100
		All other-----	800
Capitola-----	\$300		

TABLE 9

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for Santa Barbara Region, Indicating Leading Ports and Species

SANTA BARBARA REGION	\$705,700	5,468,016 pounds	
Santa Barbara	\$522,300	Albacore	\$137,300
		California Halibut	117,700
		Abalone	108,400
		Shark	53,000
		Spiny Lobster	28,200
		Bluefin Tuna	15,900
		Broadbill Swordfish	14,000
		Sole	8,800
		Sheepshead	8,200
		Pacific Mackerel	6,900
		White Sea-bass	5,900
		Ocean Whitefish	4,000
		All other	14,000
Morro Bay	\$74,500	Abalone	61,500
		Pacific Oyster	11,800
		All other	1,200
Avila	\$42,300	Shark	15,600
		California Halibut	9,200
		White Sea-bass	7,100
		Abalone	2,900
		All other	7,500
San Luis Obispo	\$31,200	California Halibut	7,800
		Abalone	6,400
		Salmon	6,000
		Shark	3,500
		Sole	2,700
		All other	4,800
Shell Beach	\$16,900	White Sea-bass	8,900
		California Halibut	2,800
		Shark	2,700
		All other	2,500
Cambria	\$15,100	Abalone	15,100
Pismo Beach	\$3,300	Pismo Clam	1,900
		California Halibut	1,000
		All other	400
All other	\$100		

TABLE 10

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for Los Angeles Region, Indicating Leading Ports and Species

LOS ANGELES REGION.....	\$15,056,900	531,118,017 pounds	
Terminal Island.....	\$8,403,400	Sardine.....	\$2,610,000
		Yellowfin Tuna.....	2,185,300
		Bluefin Tuna.....	1,197,800
		Albacore.....	1,151,000
		Skipjack Tuna.....	562,100
		Pacific Mackerel.....	311,600
		Pismo Clam.....	174,000
		Bonito Tuna.....	77,800
		Jack Mackerel.....	77,700
		Yellowtail.....	55,800
		All other.....	300
Long Beach.....	\$3,249,100	Pismo Clam.....	1,255,900
		Sardine.....	806,500
		Yellowfin Tuna.....	512,700
		Bluefin Tuna.....	363,900
		Skipjack Tuna.....	116,100
		Pacific Mackerel.....	114,200
		Jack Mackerel.....	38,900
		Albacore.....	20,600
		Shark.....	7,500
		Spiny Lobster.....	7,000
		All other.....	5,800
Wilmington.....	\$1,291,500	Yellowfin Tuna.....	612,600
		Sardine.....	287,000
		Bluefin Tuna.....	159,700
		Skipjack Tuna.....	136,700
		Bonito Tuna.....	43,500
		Albacore.....	25,200
		Jack Mackerel.....	16,000
		Pacific Mackerel.....	9,300
		All other.....	1,500
Newport Beach.....	\$831,000	Pacific Mackerel.....	313,400
		Shark.....	236,300
		Albacore.....	121,000
		Barracuda.....	37,800
		California Halibut.....	32,200
		Sardine.....	22,200
		Broadbill Swordfish.....	15,400
		Anchovy.....	13,800
		Abalone.....	5,800
		Rock Bass.....	5,300
		White Sea-bass.....	5,000
		Cabrilla.....	3,900
		Spiny Lobster.....	3,700
		Skipjack Tuna.....	3,700
		All other.....	11,500

TABLE 10—Continued

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for Los Angeles Region, Indicating Leading Ports and Species

San Pedro.....	\$723,500	Barracuda.....	250,100
		Yellowtail.....	79,800
		Shark.....	71,400
		Bluefin Tuna.....	56,000
		Cabrilla.....	53,200
		California Halibut.....	33,600
		White Sea-bass.....	21,400
		Pacific Mackerel.....	20,600
		Smelt.....	19,500
		Black Sea-bass.....	18,300
		Albacore.....	15,400
		Spiny Lobster.....	15,000
		Bonito Tuna.....	10,500
		Kingfish.....	10,100
		California Pompano.....	7,400
		Sculpin.....	6,700
		Broadbill Swordfish.....	4,600
		Rock Bass.....	4,500
		Perch.....	4,300
		Sheepshead.....	3,700
		All other.....	17,400
Santa Monica.....	\$447,600	Pacific Mackerel.....	273,000
		Shark.....	95,100
		Albacore.....	21,800
		Barracuda.....	16,200
		Mullet.....	12,000
		California Halibut.....	8,400
		Anchovy.....	3,500
		All other.....	17,600
Redondo Beach.....	\$46,600	Pacific Mackerel.....	39,800
		Barracuda.....	1,600
		Spiny Lobster.....	1,600
		All other.....	3,600
Avalon.....	\$23,000	Broadbill Swordfish.....	16,900
		Spiny Lobster.....	1,600
All other.....	\$41,200	All other.....	4,500

TABLE 11

CALIFORNIA COMMERCIAL FISH LANDINGS—1945

Values for San Diego Region, Indicating Leading Ports and Species

SAN DIEGO REGION.....		\$11,265,800	105,871,620 pounds
San Diego.....		\$9,426,500	Yellowfin Tuna..... \$4,600,000 Albacore..... 1,999,500 Skipjack Tuna..... 1,786,400 Spiny Lobster..... 227,500 Barracuda..... 173,500 Bluefin Tuna..... 154,600 Yellowtail..... 129,000 Bonito Tuna..... 68,100 Broadbill Swordfish..... 58,200 Sardine..... 49,400 California Halibut..... 35,600 Cabrilla..... 25,800 Mullet..... 22,200 Black Sea-bass..... 20,300 Shark..... 17,700 White Sea-bass..... 13,900 Pacific Mackerel..... 11,700 Grouper..... 6,600 Shark..... 6,500 Rock Bass..... 5,700 Abalone..... 4,200 Rockfish..... 3,900 All other..... 6,200
Point Loma.....		\$1,822,800	Yellowfin Tuna..... 804,600 Albacore..... 570,800 Skipjack Tuna..... 376,500 Bluefin Tuna..... 31,400 Yellowtail..... 15,800 Bonito Tuna..... 13,800 Sardine..... 9,900
La Jolla.....		\$10,800	Spiny Lobster..... 7,000 Rock Bass..... 1,500 All other..... 2,300
All other.....		\$5,700	

TABLE 12
CALIFORNIA COMMERCIAL FISH LANDINGS—1946
Values for Eureka Region, Indicating Leading Ports and Species

EUREKA REGION-----	\$3,129,100	32,392,178 pounds	
Eureka-----	\$1,383,900	Salmon-----	\$282,900
		Sole-----	252,400
		Rockfish-----	236,900
		Crab-----	204,400
		Shark-----	149,400
		Sablefish-----	106,900
		Northern Halibut-----	61,800
		Pacific Cultus-----	43,100
		Whitebait-----	12,200
		Sand Dab-----	10,200
		Albacore-----	7,500
		Starry Flounder-----	6,700
		All other-----	9,500
Fort Bragg-----	\$568,300	Salmon-----	284,500
		Rockfish-----	127,200
		Crab-----	49,000
		Sole-----	32,500
		Shark-----	26,800
		Pacific Cultus-----	19,600
		Sablefish-----	15,400
		Albacore-----	4,700
		All other-----	8,600
Crescent City-----	\$547,800	Crab-----	308,000
		Salmon-----	212,200
		Sablefish-----	10,700
		Smelt-----	3,800
		Rockfish-----	3,700
		All other-----	9,400
Fields Landing-----	\$324,700	Sole-----	84,200
		Sablefish-----	66,700
		Rockfish-----	60,500
		Crab-----	53,500
		Shark-----	19,500
		Pacific Cultus-----	13,600
		Northern Halibut-----	7,100
		Salmon-----	6,200
		Sand Dab-----	5,900
		All other-----	9,000
Trinidad-----	\$180,700	Crab-----	110,100
		Salmon-----	61,600
		Sablefish-----	4,900
		All other-----	4,100
Shelter Cove-----	\$75,200	Salmon-----	72,800
		Pacific Cultus-----	1,800
		All other-----	600
Point Arena-----	\$41,500	Salmon-----	33,900
		Pacific Cultus-----	3,800
		Crab-----	3,700
		All other-----	100
Arcata-----	\$6,900	Whitebait-----	6,000
		All other-----	900
Mendocino-----	\$100		

TABLE 13

CALIFORNIA COMMERCIAL FISH LANDINGS—1946

Values for Sacramento Region, Indicating Leading Ports and Species

CRAMENTO REGION----	\$1,082,300	8,050,966 pounds	
Pittsburg-----	\$660,200	Salmon-----	\$554,200
		Catfish-----	63,800
		Shad-----	36,900
		Carp-----	5,300
Martinez-----	\$163,200	Salmon-----	161,900
		Shad-----	1,000
		All other-----	300
Sacramento-----	\$121,000	Salmon-----	101,300
		Catfish-----	18,500
		All other-----	1,200
Collinsville-----	\$99,800	Salmon-----	97,900
		Shad-----	1,200
		All other-----	700
Stockton-----	\$27,100	Catfish-----	22,700
		Salmon-----	4,400
Benicia-----	\$9,200	Sardine-----	9,200
All other-----	\$1,800		

TABLE 14
CALIFORNIA COMMERCIAL FISH LANDINGS—1946
Values for San Francisco Region, Indicating Leading Ports and Species

SAN FRANCISCO REGION	\$2,295,900	17,690,225 pounds	
San Francisco	\$1,366,000	Shark	\$740,000
		Crab	313,900
		Sardine	72,200
		Sole	62,900
		Salmon	56,400
		Smelt	28,000
		Perch	10,900
		Pacific Herring	8,800
		Anchovy	8,500
		Sand Dab	7,100
		Shrimp	6,700
		Hardhead	6,700
		Rockfish	6,400
		Sablefish	5,600
		Carp	5,100
		All other	26,800
Point Reyes	\$470,600	Salmon	223,300
		Crab	116,900
		Shark	66,900
		Sole	31,600
		Eastern Oyster	13,400
		Pacific Cultus	3,900
		All other	14,600
Bay (Bodega)	\$284,000	Crab	116,600
		Shark	77,300
		Salmon	53,000
		Sole	19,900
		Pacific Cultus	4,600
		All other	12,600
Richmond	\$71,800	Sardine	65,200
		Shrimp	6,400
		All other	200
Half Moon Bay	\$33,300	Salmon	33,100
		All other	200
Princeton-by-the-Sea	\$32,100	Crab	14,900
		Salmon	12,600
		All other	4,600
Oakland	\$16,400	Crab	13,300
		Catfish	2,200
		All other	300
Berkeley	\$14,000	Salmon	10,700
		Shrimp	3,200
		All other	100
McNear's Point	\$4,300	Shrimp	4,300
All other	\$3,400		

TABLE 15
CALIFORNIA COMMERCIAL FISH LANDINGS—1946
Values for Monterey Region, Indicating Leading Ports and Species

MONTEREY REGION-----	\$3,009,500	123,111,509 pounds	
Monterey-----	\$2,723,200	Squid-----	\$1,210,500
		Sardine-----	1,103,400
		Jack Mackerel-----	145,000
		Rockfish-----	64,100
		Pacific Mackerel-----	42,700
		Salmon-----	37,700
		Abalone-----	28,900
		Sablefish-----	19,600
		Albacore-----	17,200
		Kingfish-----	14,100
		Sole-----	9,500
		California Halibut-----	7,300
		Smelt-----	5,300
		All other-----	17,900
Santa Cruz-----	\$242,900	Salmon-----	70,400
		Albacore-----	33,900
		Sardine-----	26,000
		California Halibut-----	24,000
		Sablefish-----	22,400
		Rockfish-----	18,900
		California Pompano-----	12,600
		White Sea-bass-----	10,000
		Shark-----	7,300
		Crab-----	6,700
		All other-----	10,700
Moss Landing-----	\$43,300	Sardine-----	27,900
		Jack Mackerel-----	6,900
		Crab-----	4,300
		All other-----	4,200
All other-----	\$100		

TABLE 16

CALIFORNIA COMMERCIAL FISH LANDINGS—1946

Values for Santa Barbara Region, Indicating Leading Ports and Species

SANTA BARBARA REGION	\$734,000	3,918,557 pounds	
Santa Barbara.....	\$505,700	Shark.....	\$190,300
		Abalone.....	76,100
		California Halibut.....	74,900
		Broadbill Swordfish.....	44,400
		Spiny Lobster.....	43,700
		White Sea-bass.....	32,000
		Albacore.....	16,700
		Sole.....	6,700
		Sheepshead.....	6,000
		All other.....	14,900
Morro Bay.....	\$84,700	Abalone.....	71,300
		Pacific Oyster.....	5,800
		Shark.....	4,600
		All other.....	3,000
Avila.....	\$56,600	Shark.....	29,200
		Abalone.....	20,500
		California Halibut.....	3,700
		All other.....	3,200
Cambria.....	\$49,000	Abalone.....	49,000
San Luis Obispo.....	\$26,300	Shark.....	10,900
		California Halibut.....	6,900
		Rockfish.....	2,700
		Sole.....	2,300
		White Sea-bass.....	2,200
		All other.....	1,300
Pismo Beach.....	\$5,500	Pismo Clam.....	5,500
All other.....	\$6,200		

TABLE 17

CALIFORNIA COMMERCIAL FISH LANDINGS—1946

Values for Los Angeles Region, Indicating Leading Ports and Species

ANGELES REGION.....	\$18,662,400	593,113,985 pounds	
Terminal Island.....	\$11,381,200	Sardine.....	\$3,876,600
		Yellowfin Tuna.....	3,043,000
		Bluefin Tuna.....	1,222,900
		Albacore.....	1,081,800
		Skipjack Tuna.....	1,027,900
		Pacific Mackerel.....	611,800
		Bonito Tuna.....	166,000
		Yellowtail.....	134,800
		Jack Mackerel.....	100,300
		Pismo Clam.....	73,100
		Spiny Lobster.....	40,600
		All other.....	2,400
Long Beach.....	\$3,670,300	Sardine.....	1,092,300
		Yellowfin Tuna.....	1,081,900
		Bluefin Tuna.....	505,500
		Skipjack Tuna.....	435,800
		Pismo Clam.....	180,300
		Pacific Mackerel.....	145,300
		Bonito Tuna.....	127,000
		Albacore.....	26,700
		Jack Mackerel.....	26,500
		Spiny Lobster.....	15,300
		Yellowtail.....	12,300
		Barracuda.....	6,300
		All other.....	15,100
Elmington.....	\$1,515,800	Yellowfin Tuna.....	507,000
		Sardine.....	379,300
		Bluefin Tuna.....	294,100
		Skipjack Tuna.....	122,600
		Pacific Mackerel.....	78,200
		Albacore.....	66,700
		Jack Mackerel.....	33,900
		Yellowtail.....	20,400
		Bonito Tuna.....	13,000
		All other.....	600
Newport Beach.....	\$961,200	Pacific Mackerel.....	331,900
		Albacore.....	158,100
		Shark.....	111,600
		Broadbill Swordfish.....	94,900
		California Halibut.....	71,000
		Barracuda.....	55,500
		Spiny Lobster.....	28,500
		Skipjack Tuna.....	21,900
		Sardine.....	17,500
		Anchovy.....	16,500
		Jack Mackerel.....	7,100
		Yellowtail.....	6,000
		Black Sea-bass.....	6,000
		All other.....	34,700

TABLE 17—Continued
CALIFORNIA COMMERCIAL FISH LANDINGS—1946

Values for Los Angeles Region, Indicating Leading Ports and Species

San Pedro.....	\$693,800	Barracuda.....	\$137,000
		California Halibut.....	94,100
		Shark.....	91,200
		Spiny Lobster.....	59,900
		Bluefin Tuna.....	57,900
		Black Sea-bass.....	33,700
		Pacific Mackerel.....	29,600
		Albacore.....	23,600
		White Sea-bass.....	23,200
		Yellowtail.....	21,600
		Cabrilla.....	16,700
		Sardine.....	15,800
		Sculpin.....	13,000
		Broadbill Swordfish.....	9,300
		Smelt.....	9,200
		Sheepshead.....	7,700
		Perch.....	6,800
		Jack Mackerel.....	6,600
		California Pompano.....	6,500
		All other.....	30,400
Santa Monica.....	\$363,900	Pacific Mackerel.....	147,300
		Shark.....	63,400
		Spiny Lobster.....	44,300
		Barracuda.....	33,400
		Albacore.....	19,400
		California Halibut.....	15,900
		Sardine.....	9,400
		Anchovy.....	6,100
		Rockfish.....	4,300
		Broadbill Swordfish.....	3,900
		All other.....	16,500
Redondo Beach.....	\$56,100	Pacific Mackerel.....	31,100
		Barracuda.....	9,600
		Sardine.....	4,400
		California Halibut.....	3,400
		All other.....	7,600
Avalon.....	\$12,700	Broadbill Swordfish.....	3,300
		Spiny Lobster.....	2,300
		Albacore.....	2,100
		Flying Fish.....	2,000
		All other.....	3,600
All other.....	\$7,400		

TABLE 18

CALIFORNIA COMMERCIAL FISH LANDINGS—1946

Values for San Diego Region, Indicating Leading Ports and Species

AN DIEGO REGION.....	\$16,433,100	141,056,723 pounds	
San Diego.....	\$13,484,800	Yellowfin Tuna.....	\$8,036,500
		Skipjack Tuna.....	2,281,100
		Albacore.....	1,624,500
		Spiny Lobster.....	358,900
		Bonito Tuna.....	192,200
		Yellowtail.....	164,500
		Barracuda.....	155,800
		Sardine.....	153,500
		California Halibut.....	119,600
		Bluefin Tuna.....	115,400
		Broadbill Swordfish.....	113,100
		Pismo Clam.....	32,900
		White Sea-bass.....	31,100
		Black Sea-bass.....	28,000
		Cabrilla.....	13,700
		Grouper.....	12,000
		Pacific Mackerel.....	11,700
		Shark.....	9,800
		Rock Bass.....	9,600
		Mullet.....	8,200
		All other.....	12,700
Point Loma.....	\$2,933,400	Yellowfin Tuna.....	1,945,300
		Albacore.....	499,800
		Skipjack Tuna.....	393,800
		Bluefin Tuna.....	48,000
		Bonito Tuna.....	32,000
		Yellowtail.....	14,500
Encinitas.....	\$11,000	Spiny Lobster.....	7,400
		Sculpin.....	1,700
		All other.....	1,900
All other.....	\$3,900		

COMMERCIAL FISHERMEN

The commercial fishing license season in California is from April 1st of one year through March 31st of the following calendar year. There has been a slow and fairly consistent increase in the number of commercial fishermen over the past 10 seasons, which was very little affected by the war years. All Japanese fishermen and aliens of other nationalities were excluded for a few years but their places were taken by other fishermen and by 1946-1947 the total number of men licensed for commercial fishing reached an all-time high of 12,312. In 1945-1946, 46 United States born Japanese had returned to the industry and in 1946-1947 there were 172. In former years when there were larger groups of Orientals fishing a separate record of the American born Chinese was given in the citizenship classification. There were only 10 American born Chinese in 1945-1946 and 16 in 1946-1947. Citizens of the Philippine Islands appear as a separate group in the nativity records for the first time in 1945-1946. Prior to gaining their independence the Filipinos had been included with the United States group since it was the practice to credit dependents of the various nations to the motherland. The numbers of United States born and naturalized citizens are increasing and the number of aliens and fishermen with first naturalization papers only, are on the decline.

Number of Commercial Fishing Licenses Sold in California

1937-1938	7,665	1942-1943	9,043
1938-1939	7,793	1943-1944	11,804
1939-1940	8,724	1944-1945	10,871
1940-1941	9,047	1945-1946	11,747
1941-1942	9,344	1946-1947	12,312

TABLE 19
NATIVITY OF LICENSED FISHERMEN
License Year 1945-1946

	<i>Number of fishermen</i>
United States	7,695
Italy	1,411
Jugoslavia	809
Norway	454
Portugal	371
Great Britain	230
Sweden	101
Mexico	77
Spain	67
Denmark	62
Finland	60
Germany	57
Russia	53
Greece	49
Philippine Islands	42
Austria	40
All others	169
Total licensed fishermen	11,747

TABLE 20
NATIVITY OF LICENSED FISHERMEN
License Year 1946-1947

	<i>Number of fishermen</i>
United States.....	8,513
Italy.....	1,339
Jugoslavia.....	736
Norway.....	454
Portugal.....	370
Great Britain.....	198
Sweden.....	92
Spain.....	60
Denmark.....	59
Finland.....	51
Philippine Islands.....	50
Germany.....	49
Mexico.....	48
Greece.....	47
Russia.....	38
Austria.....	21
All others.....	187
Total licensed fishermen.....	12,312

TABLE 21
CITIZENSHIP
1945-1946 Licensed Commercial Fishermen

	<i>Number of fishermen</i>
Citizens:	
United States born.....	7,687
Foreign-born United States citizens.....	8
Naturalized citizens.....	3,135
Noncitizens:	
First naturalization papers.....	455
Aliens.....	391
Nativity not given.....	23
Citizenship not given.....	48
Total.....	11,747

TABLE 22
CITIZENSHIP
1946-1947 Licensed Commercial Fishermen

	<i>Number of fishermen</i>
Citizens:	
United States born.....	8,505
Foreign-born United States citizens.....	8
Naturalized citizens.....	3,053
Noncitizens:	
First naturalization papers.....	295
Aliens.....	294
Nativity not given.....	69
Citizenship not given.....	88
Total.....	12,312

TABLE 23
CALIFORNIA COMMERCIAL FISHERMEN, LICENSE YEAR 1945-1946

<i>Region of residence</i>	<i>Nativity</i>	<i>Number of fishermen</i>	<i>Total</i>
Eureka-----	United States-----	484	628
	Finland-----	34	
	Norway-----	19	
	All others-----	91	
Sacramento-----	United States-----	362	559
	Italy-----	141	
	Greece-----	21	
	All others-----	35	
San Francisco-----	United States-----	889	1,484
	Italy-----	385	
	Norway-----	49	
	Jugoslavia-----	30	
	Great Britain-----	22	
	All others-----	109	
Monterey-----	United States-----	560	1,074
	Italy-----	387	
	Spain-----	46	
	Portugal-----	19	
	All others-----	62	
Santa Barbara-----	United States-----	356	441
	Philippine Islands-----	33	
	Italy-----	11	
	All others-----	41	
Los Angeles-----	United States-----	3,487	4,863
	Jugoslavia-----	711	
	Italy-----	229	
	Great Britain-----	134	
	Norway-----	59	
	Austria-----	34	
	Russia-----	33	
	Denmark-----	23	
	Sweden-----	22	
	All others-----	131	
San Diego-----	United States-----	1,302	2,023
	Portugal-----	295	
	Italy-----	243	
	Mexico-----	37	
	Great Britain-----	27	
	Norway-----	24	
	Sweden-----	23	
	All others-----	72	
Alaska, Washington and Oregon fishermen licensed in California---	Norway-----	295	646
	United States-----	255	
	Jugoslavia-----	47	
	Sweden-----	16	
	All others-----	33	
Mexican nationals licensed in Cali- fornia-----	Mexico-----	29	29
Total-----			11,747

TABLE 24
CALIFORNIA COMMERCIAL FISHERMEN, LICENSE YEAR 1946-1947

<i>Region of residence</i>	<i>Nativity</i>	<i>Number of fisherman</i>	<i>Total</i>
Alameda.....	United States.....	696	
	Finland.....	36	
	Norway.....	25	
	All others.....	88	845
San Francisco.....	United States.....	497	
	Italy.....	119	
	Greece.....	24	
	All others.....	31	671
San Francisco.....	United States.....	847	
	Italy.....	362	
	Norway.....	37	
	Jugoslavia.....	26	
	All others.....	112	1,384
Monterey.....	United States.....	787	
	Italy.....	383	
	Spain.....	37	
	Portugal.....	18	
	All others.....	69	1,294
Santa Barbara.....	United States.....	478	
	Philippine Islands.....	39	
	Portugal.....	13	
	All others.....	39	569
Los Angeles.....	United States.....	3,426	
	Jugoslavia.....	666	
	Italy.....	238	
	Great Britain.....	107	
	Norway.....	65	
	Russia.....	25	
	Sweden.....	23	
	Denmark.....	22	
	All others.....	169	4,741
San Diego.....	United States.....	1,477	
	Portugal.....	299	
	Italy.....	212	
	Great Britain.....	24	
	Norway.....	23	
	All others.....	92	2,127
Alaska, Oregon, Washington and other states licensed in California.....	United States.....	305	
	Norway.....	296	
	Jugoslavia.....	26	
	All others.....	54	681
Total.....			12,312

COMMERCIAL FISHING FLEET

Commercial fishing boats are registered with the California Division of Fish and Game by the license season which is from April 1st through the following March 31st. During the seasons 1945-1946 and 1946-1947 there was an increase in numbers of boats of all sizes but the most rapid increase took place among boats over 85 feet in length. These represent vessels constructed for fishing on the high seas and capable of carrying large loads. In the smaller size categories occur several types of former military craft. In the group under 40 feet are many converted 36-foot navy landing craft. In the 1945-1946 season one army amphibian was registered for commercial fishing and in 1946-1947 there were five of these DUKWs operating.

Commercial Fishing Fleet

<i>Season</i>	<i>Under 40 feet</i>	<i>40 feet and over</i>	<i>Total</i>
1939-40	2,253	857	3,110
1940-41	2,510	944	3,454
1941-42	2,331	871	3,202
1942-43	2,264	701	2,965
1943-44	2,929	797	3,726
1944-45	2,852	930	3,782
1945-46	3,103	1,042	4,145
1946-47	3,558	1,299	4,857

TABLE 25
COMMERCIAL FISHING FLEET—1945-1946

Region of home port	Number of boats, grouped by length					Total number of boats for each region
	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 feet and over	
Eureka	43	244	71	7		365
Sacramento	122	192	5			319
San Francisco	91	505	92	24	3	715
Monterey	89	199	25	61	4	378
Santa Barbara	37	87	30	1		155
Los Angeles	298	879	287	107	32	1,603
San Diego	69	229	103	42	54	497
Alaska, Oregon and Washington		19	44	44	6	113
Total number of boats	749	2,354	657	286	99	4,145

TABLE 26
COMMERCIAL FISHING FLEET—1946-1947

Region of home port	Number of boats, grouped by length					Total number of boats for each region
	Up to 24 feet	25 to 39 feet	40 to 64 feet	65 to 84 feet	85 feet and over	
Eureka.....	34	272	95	15	2	418
Sacramento.....	137	228	10	-----	1	376
San Francisco.....	83	528	108	24	6	749
Monterey.....	74	207	34	63	6	384
Santa Barbara.....	43	108	33	-----	1	185
Los Angeles.....	361	1,059	345	124	39	1,928
San Diego.....	100	288	123	49	87	647
Alaska, Oregon and Washington.....	-----	36	77	44	13	170
Total number of boats.....	832	2,726	825	319	155	4,857

FISHING-PARTY VESSELS

Every person operating a fishing-party vessel for profit in this State must first obtain from the Division of Fish and Game a permit, good for one calendar year. A record of these party-permit boats is included with the regular commercial fishing fleet because they draw upon the same supply of fish. The majority of the owners and operators hold commercial fishing licenses and do commercial fishing as well as operating sport fishing boats.

The number of party vessels under permit decreased during the war years from 553 in 1941 to 235 in 1944. With the termination of hostilities, restrictions on marine sport fishing and automobile transportation were removed. Most people were thus able to indulge in marine sport fishing and party-permit boats again began to increase. By 1946, 438 boats were in operation.

TABLE 27
FISHING-PARTY VESSELS

	1945	1946
Boat owners with market fishermen's licenses.....	157	242
Boat owners with party permits only.....	131	196
Total party permit or "sport" boats.....	288	438

EXPLANATION OF TABLES

SHIPMENTS INTO CALIFORNIA

The tables in this series of bulletins present a record of the landings of the commercial fishing boats at California ports and of shellfish harvested along the coast. In addition there are included shipments of fish first landed outside of the State but brought in by rail, truck, or cargo vessel to be canned in California, or to be sold fresh. The tables do not include the fish which is canned, frozen, packaged or processed outside of the State and shipped to our markets and wholesale dealers.

1945 shipments included in the state-wide tables are as follows :

	<i>Pounds</i>
To canneries from north of the State line	
Albacore -----	60,901
To canneries from south of the international boundary	
Albacore -----	47,857
Skipjack Tuna -----	81,055
Yellowfin Tuna -----	1,323,504
Yellowtail -----	18,972
Pismo Clam -----	53,414,200
To fresh fish markets from south of the international boundary	
Spiny Lobster -----	793,303
Miscellaneous Fish -----	54,229

1946 shipments included in the state-wide tables are as follows :

	<i>Pounds</i>
To canneries from south of the international boundary	
Skipjack Tuna -----	214,162
Yellowfin Tuna -----	818,032
Pismo Clam -----	11,408,496
To fresh fish markets from south of the international boundary	
Spiny Lobster -----	1,225,767
Miscellaneous Fish -----	12,367

STATISTICAL REGIONS

The boundaries of the regions of landings shown in Figure 1 and in the tables are as follows :

Eureka region : Del Norte, Humboldt and Mendocino Counties.

Sacramento region : Sacramento and San Joaquin River systems with the delta areas, including Suisun Bay and Lake County.

San Francisco region : Sonoma, Marin, San Francisco and San Mateo Counties, including San Francisco and San Pablo Bays ; Alameda and Contra Costa Counties to Carquinez Straits.

Monterey region : Monterey and Santa Cruz Counties.

Santa Barbara region : San Luis Obispo, Santa Barbara and Ventura Counties.

Los Angeles region : Los Angeles and Orange Counties.

San Diego region : San Diego and Imperial Counties.

VALUE

The value tables represent the amount paid to the fishermen for their catch. The fish receipt does not always show the price paid per pound. Where this information is lacking, the calculated value is based on the average price paid for the month and in the area where the fish is delivered.

CONVERSION FACTORS

The source from which the tables are compiled is a copy of the original fish receipt issued to the fisherman by the buyer at the time the fish is first landed. The poundage reported is assumed to be round weight unless the receipt indicates that the fish is cleaned or out of the shell. In such cases adjustments are made if this can be done with fair accuracy. There are inconsistencies in some weights, however, due to the fact that the receipt does not always indicate whether the fish was or was not cleaned before landing, or the manner in which it was cleaned. Salmon, white sea-bass and barracuda are examples of such species and for these no adjustments have been possible. Some other species are as a rule landed in a cleaned condition but again adjustments have not been made since accurate field data which would provide the basis for adjusting the weights are lacking. Such species are catfish with a cleaning loss approximating 50 percent, broadbill swordfish and groupers with a cleaning loss of 20 to 30 percent, and sharks where at times livers only are landed.

Conversion factors are available for shellfish and when these species are reported in numbers rather than pounds, or as cleaned rather than round weight, the factors used are:

Crab, 2 pounds each; red abalone, 50 pounds per dozen; green abalone, 35 pounds per dozen; Pismo clams, 24 pounds per limit of 15 clams; Mexican Pismo clams, 8 pounds for each 1 pound cleaned weight; Washington clams, 7 pounds per dozen; Eastern oysters, 30 pounds per hundred; Pacific oysters, 50 pounds per hundred or 8 pounds per gallon cleaned.

COMMON AND SCIENTIFIC NAMES OF FISHES, CRUSTACEANS AND MOLLUSKS

FISHES

<i>Common name</i>	<i>Scientific name</i>
Anchovy-----	Anchoviella compressa Anchoviella delicatissima Engraulis mordax
Barracuda-----	Sphyræna argentea
Cabezona-----	Scorpaenichthys marmoratus
Cabrilla-----	Epinephelus analogus Various species of Mycteroperca
Carp-----	Cyprinus carpio
Catfish-----	Ameiurus catus Ameiurus nebulosus
Corbina, Mexican-----	Cynoscion sp.
Cultus, Pacific-----	Ophiodon elongatus
Eel-----	Cebidichthys violaceus Xiphister mucosus Other stichæids and blenniids Gymnothorax mordax
Flounder, Starry-----	Platichthys stellatus
Flying Fish-----	Cypselurus californicus
Grouper-----	Various species of Mycteroperca
Hake-----	Merluccius productus
Halibut, California-----	Paralichthys californicus
Halibut, Northern-----	Hippoglossus stenolepis
Hardhead-----	Orthodon microlepidotus Mylopharodon conocephalus
Herring, Pacific-----	Clupea pallasii
Kingfish-----	Genyonemus lineatus
Small percentage of Queenfish-----	Seriphus politus
Mackerel, Jack *-----	Trachurus symmetricus
Mackerel, Pacific-----	Pneumatophorus diego
Mackerel, Spanish-----	Scomberomorus sierra
Mullet-----	Mugil cephalus
Perch	
Halfmoon-----	Medialuna californiensis
Opal-eye-----	Girella nigricans
Salt-water-----	Various members of the Embiotocidae
Sargo-----	Anisotremus davidsoni
Pike-----	Ptychocheilus grandis

* Formerly known as Horse Mackerel.

COMMON AND SCIENTIFIC NAMES OF FISHES, CRUSTACEANS AND MOLLUSKS—Continued

FISHES—Continued

<i>Common name</i>	<i>Scientific name</i>
Pompano, California	Palometa simillima
Rock Bass	Paralabrax clathratus Paralabrax nebulifer
Rockfish	All species of Sebastodes and Sebastolobus found in California waters
Sablefish	Anoplopoma fimbria
Salmon	Oncorhynchus tshawytscha Oncorhynchus kisutch
Sand Dab	Citharichthys stigmaeus Citharichthys sordidus
Sardine	Sardinops caerulea
Sculpin	Scorpaena guttata
Sea-bass, Black	Stereolepis gigas
Sea-bass, White	Cynoscion nobilis
Shad	Alosa sapidissima
Shark	Alopias vulpes Galeorhinus zyopterus Mustelus californicus Notorynchus maculatus Prionace glauca Rhinotriacis henlei Squalus suckleyi Triakis semifasciata Small percentage of other species
Sheepshead	Pimelometopon pulcher
Skate	Raja binoculata Raja inornata Raja rhina And other species
Smelt	Atherinops affinis Atherinopsis californiensis Leuresthes tenuis Hypomesus pretiosus Small percentage of other Osmeridae
Sole	Eopsetta jordani Glyptocephalus zachirus Parophrys vetula Several other pleuronectids
Split-tail	Pogonichthys macrolepidotus
Sucker	Catostomus occidentalis

COMMON AND SCIENTIFIC NAMES OF FISHES, CRUSTACEANS AND MOLLUSKS—Continued

FISHES—Continued

<i>Common name</i>	<i>Scientific name</i>
Swordfish, Broadbill-----	Xiphias gladius
Tuna	
Albacore-----	Thunnus germon
Bluefin-----	Thunnus thynnus
Bonito-----	Sarda lineolata
Skipjack-----	Katsuwonus pelamis
Yellowfin-----	Neothunnus macropterus
Turbot-----	Hypsopsetta guttulata Pleuronichthys decurrens Pleuronichthys verticalis Possibly a small percentage of other pleuronectids
Whitebait-----	Allosmerus attenuatus Spirinchus starksi Young of several species of fishes
Whitefish, Ocean-----	Caulolatilus princeps
Yellowtail-----	Seriola dorsalis

CRUSTACEANS

Crab, Market-----	Cancer magister
Crab, Rock-----	Cancer antennarius Cancer anthonyi Cancer productus
Lobster, Spiny-----	Panulirus interruptus
Shrimp-----	Crago franciscorum and Crago nigricauda

MOLLUSKS

Abalone-----	Haliotis fulgens Haliotis rufescens Haliotis cracherodii
Clam, Cockle-----	Paphia staminea Species of Chione
Clam, Pismo-----	Tivela stultorum
Clam, Soft-shell-----	Mya arenaria
Clam, Washington-----	Saxidomus nuttalli
Octopus-----	Polypus hongkongensis Polypus bimaculatus
Oyster, Eastern-----	Ostrea virginica
Oyster, Pacific-----	Ostrea gigas
Squid-----	Loligo opalescens Small percentage of other species

TABLE 28
ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1945

Species	California	North of the State Boundary	South of the International Boundary	Total pounds
Anchovy	1,616,880			1,616,880
Barracuda	1,744,560		2,128,697	3,873,257
Cabezone	4,303			4,303
Cabrilla			578,158	578,158
Carp	122,521			122,521
Catfish	425,334			425,334
Corbina, Mexican			1,219	1,219
Cultus, Pacific	758,329	375		758,704
Flounder, Starry	339,313			339,313
Flying Fish	6,167			6,167
Grouper			92,435	92,435
Hake	2,415			2,415
Halibut, California ^a	1,638,137		166,671	1,804,808
Halibut, Northern	233,986			233,986
Hardhead	9,314			9,314
Herring, Pacific	460,465			460,465
Kingfish	459,338		177	459,515
Mackerel, Jack	9,032,987			9,032,987
Mackerel, Pacific	53,716,705			53,716,705
Mackerel, Spanish			11,854	11,854
Mullet ^b	304,391			304,391
Perch	215,055		3,815	218,870
Pike	188			188
Pompano, California	70,949			70,949
Rock Bass	120,484		43,362	163,846
Rockfish	13,244,839	5,297	36,267	13,286,403
Sablefish	6,258,638	449		6,259,087
Salmon	13,380,714			13,380,714
Sand Dab	588,356			588,356
Sardine	845,062,774			845,062,774
Sculpin	92,871		1,785	94,656
Sea-bass, Black	12,328		318,215	330,543
Sea-bass, White	380,093		147,262	527,355
Shad	1,483,674			1,483,674
Shark	2,418,289	8,670	11,108	2,438,067
Sheepshead	190,342		59,242	249,584
Skate	74,009			74,009
Smelt	2,369,302		193	2,369,495
Sole	7,752,754	2,191		7,754,945
Split-tail	2,633			2,633
Sucker	1,328			1,328
Swordfish, Broadbill	168,178		194,915	363,093
Tuna, Albacore	8,780,413	293,751	12,262,037	21,336,201
Tuna, Bluefin	14,139,126		6,454,983	20,594,109
Tuna, Bonito	339,664		2,374,517	2,714,181
Tuna, Skipjack	93,078		33,254,818	33,347,896
Tuna, Yellowfin	4,959		87,443,086	87,448,045
Turbot	159,870			159,870
Whitebait	290,723			290,723
Whitefish, Ocean	32,780		29,208	61,988
Yellowtail	29,446		3,504,606	3,534,052
Miscellaneous Fish	372,668		1,122	373,790
Crustacean:				
Crab	4,346,083			4,346,083
Lobster, Spiny	479,119		793,303	1,272,422
Shrimp	383,599			383,599
Mollusk:				
Abalone	2,429,312		17,269	2,446,581
Clam, Cockle	1,067			1,067
Clam, Pismo	26,079		53,414,200	53,440,279
Clam, Soft-shell	13,415			13,415
Clam, Washington	6,565			6,565
Octopus	12,508			12,508
Oyster, Eastern	65,581			65,581
Oyster, Pacific	309,738			309,738
Squid	15,225,589			15,225,589
Total pounds	1,012,304,325	310,733	203,344,524	1,215,959,582

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to fresh fish dealers. For detail see page 38.

^a See footnote a, Table 29.

^b Includes part but not all of the poundage of mullet taken in the Salton Sea.

TABLE 29
POUNDS AND VALUE OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1945

Species	Eureka Region		Sacramento Region		San Francisco Region		Monterey Region	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Anchovy.....	475	\$26			292,030	\$7,024	127,747	\$960
Barracuda.....								
Cabezone.....								
Cabrilla.....					3,492	103	811	30
Carp.....			20,326	\$1,353	66,528	4,354		
Catfish.....			425,044	103,304	290	87		
Corbina, Mexican.....								
Culicus, Pacific.....	564,740	54,770						
Flounder, Slarry.....	115,943	5,192			147,932	9,510	39,382	2,587
Flying Fish.....					189,784	8,052	32,234	1,462
Grouper.....								
Hake.....	2,102	348						
Halibut, California.....					313	52		
Halibut, Northern.....					*62,415	7,363		
Hardhead.....	233,774	43,050			212	36	34,176	4,501
Herring, Pacific.....			1,226	331				
Kingfish.....	58,935	1,032			8,088	1,603		
Mackerel, Jack.....					309,305	5,423	88,260	880
Mackerel, Pacific.....					8,255	421	241,273	13,196
Mackerel, Spanish.....							250,787	10,267
Mullet.....					2,017	144	455,210	17,592
Perch.....								
Pike.....	44,303	4,777						
Pompano, California.....			188	16	81,034	11,806	28,211	2,391
Rock Bass.....					89	45	9,274	5,387
Rockfish.....	11,718,824	514,737			185,536	8,959	1,177,180	78,396
Sablefish.....	3,657,829	296,065			165,361	13,018	2,427,934	209,367
Salmon.....	4,027,714	867,508	5,467,960	732,578	2,431,954	427,017	816,303	142,710
Sand Dab.....	145,104	6,530			325,038	15,050	11,577	9,185
Sardine.....			35,837,800	396,112			316,980,468	3,561,906
Sculpin.....								
Sea-bass, Black.....								
Sea-bass, White.....	3,213	499						
Shad.....	780	25			34,435	4,723	2,116	236
Shark.....	570,523	156,122	1,482,618	71,883	276	26		
Sheepshead.....					395,068	426,272	161,508	14,764

Skate	842	95			30,376	390	27,444	552
Smelt	159,297	12,271			1,715,864	106,918	234,503	14,437
Sole	4,792,645	215,576			2,133,482	95,525	537,893	25,343
Split-tail			2,633	208				
Sucker								
Swordfish, Broadbill								
Tuna, Albacore	89,801	17,500			4,285	836	368,229	71,802
Tuna, Bluefin					1,039	94		
Tuna, Bonito								
Tuna, Skipjack								
Tuna, Yellowfin								
Turbot	92,144	3,833			3,022	304		
Whitebait	243,773	21,847			38,417	1,702	3,095	108
Whitefish, Ocean					46,950	5,805		
Yellowtail								
Miscellaneous Fish	260,937	13,329	68	3	39,125	1,972	5,638	301
Crustacean:								
Crab ^a	1,380,568	140,077			2,914,474	372,453	57,838	6,779
Lobster, Spiny					382,147	14,659	1,452	241
Shrimp								
Mollusk:								
Abalone					390,310	41,088	167,872	19,841
Clam, Cockle								
Clam, Pismo							2,346	314
Clam, Soft-shell	348	27			13,067	784		
Clam, Washington	6,565	505						
Octopus	2,498	180			7,144	549	2,866	365
Oyster, Eastern					65,581	8,461		
Oyster, Pacific					80,528	8,117		
Squid	200	6					15,173,429	423,980
Total pounds and value	28,753,877	\$2,375,977	43,243,863	\$1,355,738	161,937,333	\$3,270,282	339,566,856	\$4,639,580

^a As reported by buyers. However, field investigations indicate that almost all landings at San Francisco are northern halibut.

^b For regions north of Santa Barbara crab landings are market crab, in Santa Barbara Region both market and rock crab, in Los Angeles Region rock crab.

Skate.....	9,602	341	5,745	302	74,009	1,680
Smelt.....	27,645	2,288	231,296	19,736	2,369,495	155,731
Sole.....	282,869	13,188	8,163	598	7,754,945	350,238
Split-tail.....					2,633	208
Sucker.....			1,328	266	1,328	266
Swordfish, Broadbill	46,047	14,032	123,090	37,442	303,093	109,662
Tuna, Albacore.....	c730,155	140,449	6,972,641	1,357,576	21,336,201	4,158,440
Tuna, Bluefin.....	167,635	15,928	18,639,045	1,781,834	20,594,109	1,983,814
Tuna, Bonito.....	29,518	2,287	1,677,958	132,230	2,714,181	216,505
Tuna, Skipjack.....	6,253	560	9,305,820	818,644	33,347,896	2,882,365
Tuna, Yellowfin.....	205	20	33,290,035	3,311,226	87,448,045	8,716,735
Turbot.....	25,227	1,013	987	48	159,870	6,754
Whitebait.....					290,723	27,652
Whitefish, Ocean.....	26,256	3,983	11,568	1,491	61,988	8,257
Yellowtail.....			1,771,527	147,533	3,534,052	292,336
Miscellaneous Fish.....	20,603	1,670	46,237	3,249	373,790	20,638
Crustacean:						
Crab.....	1,015	86	12,188	1,218	4,346,083	520,613
Lobster, Spiny.....	125,813	28,247	155,255	39,017	1,272,422	302,072
Shrimp.....					991,354	14,900
Mollusk:						
Abalone.....	1,700,275	194,472	176,800	20,580	2,446,581	280,170
Clam, Cockle.....			1,067	176	1,067	176
Clam, Pismo.....	23,733	2,710	53,414,200	1,430,203	53,440,279	1,433,227
Clam, Soft-shell.....					13,415	811
Clam, Washington.....					6,565	505
Octopus.....					12,508	1,094
Oyster, Eastern.....					65,581	8,461
Oyster, Pacific.....	229,210	11,808			309,738	19,925
Squid.....			51,960	2,477	15,225,589	426,463
Total pounds and value.....	5,468,016	\$705,713	531,118,017	\$15,059,880	105,871,620	\$11,265,846
						\$38,670,016

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers. For detail see page 38.

^c Includes albacore delivered to barges off San Diego and Santa Catalina Island but reported at Santa Barbara although landed at other ports.

TABLE 30
MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1945

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchorvy.....	205,195	13,869	4,909	9,440	53,616	121,295	133,951	207,054	190,988	114,950	408,405	153,208	1,616,880
Barraouta.....	112,992	395,989	403,475	226,116	796,909	688,715	86,571	34,090	398,787	383,046	179,321	167,876	3,873,257
Cabrone.....	96	96	107	168	2,231	591	362	72	180	196	175	39	4,303
Cabrilla.....	2,229	19,138	13,587	21,542	55,863	99,009	146,787	5,727	1,468	44,363	95,507	72,798	578,153
Carp.....	520	342	7,936	12,442	9,810	35,038	3,736	5,466	1,683	9,935	9,989	25,624	122,521
Catfish.....	31,703	29,789	34,004	58,438	---	298	---	91	28,862	70,865	109,351	67,943	425,334
Corbina, Mexican.....	---	---	---	1,219	---	---	---	---	---	---	---	---	1,219
Cultus, Pacific.....	32,466	11,695	13,896	38,333	87,074	59,795	101,430	121,053	99,540	95,147	48,535	49,740	758,704
Flounder, Starry.....	29,977	40,287	30,970	41,025	19,119	2,348	8,802	10,134	28,258	41,699	30,380	57,814	339,313
Flying Fish.....	---	---	---	203	5,476	468	20	---	---	---	---	---	6,167
Grouper.....	1,844	8,014	1,126	15,560	4,704	11,700	11,008	---	---	6,046	6,988	25,445	92,435
Hake.....	20	---	---	12	327	55	---	332	793	105	---	457	2,415
Halibut, California*.....	160,985	124,233	163,005	238,333	126,772	118,982	75,388	153,811	118,623	169,402	171,009	179,265	1,804,808
Halibut, Northern.....	260	158	82	257	145,771	66,338	7,298	8,014	4,364	1,225	571	48	233,886
Hardhead.....	---	---	---	---	---	---	---	4	3,237	2,102	1,191	2,780	9,314
Herring, Pacific.....	147,491	52,613	137,144	73	---	74,383	28,421	48,460	39,800	38,545	2,886	31,998	460,465
Kingfish.....	29,390	28,321	63,551	47,420	37,560	18,938	10,139	38,959	35,105	967,800	26,095	11,685	459,515
Mackerel, Jack.....	1,187,870	216,644	181	4,764	10,656	267,048	100,573	10,065	106,472	14,826,322	2,604,752	3,804,706	9,032,987
Mackerel, Pacific.....	4,219,443	734,184	83,553	343,847	335,260	267,048	100,573	1,100,628	7,345,396	13,861,521	10,498,720	53,716,705	53,716,705
Mackerel, Spanish.....	1,114	54	---	207	2,227	1,398	2,118	55	264	2,534	248	1,635	11,854
Mullet.....	90,790	19,539	50,435	40,173	66,908	31,099	5,320	---	---	127	---	---	304,391
Perch.....	10,199	11,537	54,604	76,455	4,581	382	20,231	10,661	10,202	8,686	6,064	6,268	218,870
Pike.....	7	116	15	37	5	---	---	---	---	8	---	---	188
Pompano, California.....	568	5,353	21,623	14,669	7,222	2,271	2,742	2,465	2,668	2,305	5,344	3,719	70,949
Rock Bass.....	13,360	11,226	9,143	7,917	9,595	34,834	27,228	8,251	6,833	12,441	12,173	10,845	163,846
Rockfish.....	368,422	227,824	660,895	1,058,235	3,114,081	1,535,407	1,194,233	1,578,761	1,195,439	1,219,798	624,442	632,866	13,286,403
Sablefish.....	126,734	66,346	140,009	370,172	694,655	471,104	592,212	998,149	826,559	610,329	427,899	855,919	6,259,087
Salmon.....	16,620	33,483	22,387	345,110	2,294,122	1,348,962	2,298,718	2,308,519	4,634,595	85,787	680	1,741	13,380,714
Sand Dab.....	53,633	59,676	98,476	74,014	40,059	62,752	38,661	30,304	24,230	30,101	36,617	39,233	588,356
Sardine.....	93,316	31,467,456	332,950	246,320	1,910,007	3,647,430	1,906,822	167,019,816	167,019,816	239,032,669	134,272,215	65,111,235	845,662,774
Sculpin.....	3,652	3,701	3,238	1,634	4,944	14,558	10,948	10,342	9,636	12,145	12,145	14,018	94,656
Sea-bass, Black.....	1,634	6,809	20,682	14,080	25,710	67,608	13,159	5,340	10,787	41,984	25,485	97,256	330,543
Sea-bass, White.....	9,184	7,657	6,491	20,220	68,979	57,435	67,776	73,984	26,582	113,544	46,069	29,133	527,355
Shad.....	---	---	40,868	591,720	839,509	10,641	236	575	---	---	---	---	1,483,674
Shark.....	475,232	59,023	38,213	70,694	188,475	347,694	344,942	298,331	187,348	131,835	88,021	213,359	2,438,067
Sheepshead.....	30,291	20,963	26,252	30,910	18,715	30,157	4,368	5,173	3,745	33,383	22,892	22,735	240,584

Skate.....	8,608	9,253	14,052	17,199	2,625	3,418	2,975	4,208	1,969	104	3,246	6,352	74,009
Smelt.....	489,075	462,618	452,430	430,562	151,420	165,435	174,538	155,718	112,530	89,003	326,933	26,963	2,369,495
Sole.....	47,619	386,815	458,805	562,827	632,214	590,808	1,155,938	939,880	515,304	989,118	399,803	665,814	7,754,045
Split-tail.....	52	141	254	100	134	138	1,155,938	580	808	60	60	461	2,633
Sucker.....	---	---	---	---	---	1,328	---	---	---	---	---	---	1,328
Swordfish, Broadbill.....	---	---	---	---	372	---	24,310	25,226	69,612	195,074	45,067	1,438	363,093
Tuna, Albacore.....	68,681	2,358	---	---	---	1,994	4,731,047	9,991,408	3,169,325	3,086,236	280,877	94	21,336,201
Tuna, Bluefin.....	---	228,403	646,347	732,287	2,739,817	6,175	5,523,016	4,987,729	740,060	397,342	56,428	325	20,594,109
Tuna, Bonito.....	142,689	63,542	50,698	35,069	35,069	31,388	20,555	24,815	702,620	850,640	407,991	156,761	2,714,181
Tuna, Skipjack.....	674,782	595,377	236,084	1,297,235	2,281,514	1,465,333	1,422,733	1,652,082	4,950,313	10,788,328	4,862,526	3,121,569	33,347,896
Tuna, Yellowfin.....	2,665,689	4,472,583	4,545,400	7,336,416	13,064,574	16,461,916	10,044,925	4,918,182	3,978,029	3,075,615	7,493,707	9,391,009	87,448,045
Turbot.....	5,633	9,225	12,900	18,054	6,283	8,917	11,870	14,830	39,326	26,847	1,619	4,266	159,870
Whitebait.....	8,521	47,377	35,578	26,646	32,801	57,664	40,710	18,673	1,463	20	6,902	14,368	290,723
Whitefish, Ocean.....	10,423	4,872	8,714	5,175	9,770	5,074	7,460	151	733	5,098	1,200	3,318	61,988
Yellowtail.....	153,197	125,162	86,512	131,947	226,697	370,176	532,258	527,354	555,744	364,166	209,870	250,969	3,534,052
Miscellaneous Fish.....	12,637	3,397	3,234	7,009	9,080	12,034	10,248	50,614	81,188	129,674	49,900	4,775	373,790
Crustacean:													
Crab.....	396,588	240,757	235,724	447,049	617,492	436,957	340,248	162,491	713	24	860,018	608,022	4,348,083
Loxster, Spiny.....	249,697	105,470	232,090	35,800	---	---	---	---	26	222,983	190,707	276,140	1,272,422
Shrimp.....	18,107	11,601	5,650	10,574	27,619	38,363	62,193	78,061	34,716	40,163	25,664	30,898	383,599
Mollusk:													
Abalone.....	144,970	---	31,740	326,038	284,982	186,881	363,434	372,656	252,563	180,129	172,777	150,411	2,446,581
Clam, Cockle.....	---	---	---	---	50	812	205	---	---	---	---	---	1,067
Clam, Pismo.....	2,639,282	3,795,798	3,904,248	2,965,489	3,194,677	3,460,480	4,976,233	3,264,610	3,928,336	5,748,953	7,373,760	8,189,013	53,440,279
Clam, Soft-shell.....	1,416	1,128	1,554	1,420	1,355	1,341	1,261	1,056	778	1,173	508	445	13,415
Clam, Washington.....	949	442	1,444	1,282	---	---	---	---	---	---	1,097	1,351	6,565
Octopus.....	543	815	751	1,438	1,488	1,551	1,555	915	307	420	630	2,095	12,508
Oyster, Eastern.....	10,807	9,209	6,964	7,889	4,418	3,483	2,375	2,750	2,375	2,890	7,095	7,901	65,581
Oyster, Pacific.....	40,312	40,598	60,141	31,086	25,428	16,799	23,622	20,257	16,950	6,950	10,900	10,795	309,738
Squid.....	770	12,470	---	587,551	7,340,227	3,845,499	1,132,103	463,993	793,566	198,415	521,325	329,570	15,225,589
Total pounds.....	108,488,023	44,331,703	13,543,913	18,953,010	41,601,028	40,885,567	37,847,831	141,730,513	202,233,614	284,702,410	176,116,789	105,525,181	1,215,959,582

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers. For detail see page 58.

* See footnote a, Table 29.

TABLE 31
COMMERCIAL FISH LANDINGS IN THE EUREKA REGION DURING 1945
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....	16,772	5,078	3,246	27,550	64,754	47,081	79,177	103,084	86,199	125	25,610	30,491	475
Cutthroat, Pacific.....	6,239	5,709	1,649	9,135	7,553	787	2,862	2,527	4,205	16,284	17,058	41,935	564,365
Flounder, Starry.....					78	55	314	300	793	105		457	115,943
Hake.....	140	90	82	257	145,771	65,938	7,298	8,014	4,364	1,225	547	48	2,102
Hallbut, Northern.....		22,390	36,545										233,774
Herring, Pacific.....		3,046	18,048	18,223	146		163	406	456	1,044	453	295	58,935
Perch.....	1,033	187,900	623,569	1,022,541	3,019,329	1,452,875	1,107,336	1,136,908	914,682	1,051,022	345,535	576,323	44,303
Rockfish.....	275,517	21,042	64,952	94,167	213,917	155,367	398,210	418,250	479,087	634,348	393,106	783,347	11,713,527
Sablefish.....	487			14,494	382,719	253,372	1,764,756	1,662,039	464,547	85,787			3,657,380
Salmon.....				10,029	16,693	8,636	20,783	16,252	12,264	14,212	11,815	20,256	4,627,714
Sand Dab.....	6,262	1,931	5,971				150	402	420	838	833	243	145,104
Sea-bass, White.....	327			80				575		125			3,213
Shad.....		7,732	743	1,078	166	891	11,472	9,244	18,860	31,620	17,216	119,827	780
Shark.....	343,104				150		71		515				561,853
Skate.....		106		2,107	3,901	14,276	48,865	59,556	21,038	8,375			159,297
Smelt.....		677	502	103,695	362,849	249,503	960,450	780,024	407,242	830,305	274,620	501,536	4,790,454
Sole.....	196,244	51,413	72,573				233	90	89,155	273			89,801
Tuna, Albacore.....							11,870	14,305	24,886	24,491	452	74	92,144
Turbot.....	756	957	3,843	510			36,558	18,508	1,463				243,773
Whitebait.....	7,262	40,889	31,705	25,421	29,815	52,152	2,554	35,834	71,832	126,709	19,614	1,920	260,937
Miscellaneous Fish.....	101	17		18	772	1,566							
Crustacean:													
Crab.....	46,581	64,369	57,259	225,947	375,154	256,030	184,545	102,450				48,233	1,360,568
Mollusk:													
Clam, Soft-shell.....													348
Clam, Washington.....	949	442	1,444	1,282						348			6,565
Octopus.....	195	69	17	108	223	340	437	246	91	217	1,097	1,351	2,498
Squid.....											104	451	200
Total pounds.....	901,969	413,857	922,148	1,556,642	4,623,990	2,559,319	4,638,154	4,369,454	2,612,699	2,903,626	1,108,050	2,126,987	28,736,895

TABLE 31—Continued
Fishing Boat Landings From Waters North of the State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific.....	3									234	66	72	375
Rockfish.....										4,676	11	610	5,297
Sablefish.....										449			449
Shark.....	984										3,126	4,560	8,670
Sole.....										2,191			2,191
Total pounds.....	987									7,550	3,203	5,242	16,982
Grand totals, Eureka Region..	902,956	413,857	923,148	1,556,642	4,623,990	2,559,319	4,638,154	4,369,454	2,612,699	2,911,176	1,111,253	2,132,229	28,753,877

TABLE 32
COMMERCIAL FISH LANDINGS IN THE SACRAMENTO REGION DURING 1945
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp.....	361	236	549	5,399	5,076	4,406	-----	2,384	1,653	64	1,677	4,491	26,326
Catfish.....	31,703	29,789	34,094	56,428	-----	208	-----	91	22,862	70,575	106,351	67,943	425,044
Hardhead.....	-----	-----	-----	-----	-----	-----	-----	4	-----	282	840	100	1,226
Pike.....	7	116	15	37	5	-----	-----	-----	3,666,130	8	-----	-----	188
Salmon.....	16,620	33,483	22,387	150,771	986,574	343,281	-----	246,293	11,821,000	-----	680	1,741	5,467,960
Sardine.....	4,442,000	774,000	-----	-----	-----	-----	-----	6,360,300	-----	9,101,000	3,239,500	-----	35,837,800
Shad.....	-----	-----	40,868	591,627	839,482	10,641	-----	-----	808	-----	-----	-----	1,482,618
Split-tail.....	52	141	294	100	134	43	-----	580	6	-----	60	461	2,633
Miscellaneous Fish.....	-----	-----	-----	62	-----	-----	-----	-----	-----	-----	-----	-----	68
Grand totals, Sacramento Region.....	4,490,743	837,765	98,077	806,424	1,831,271	358,669	-----	6,609,652	15,612,489	9,171,929	3,352,108	74,736	43,248,863

COMMERCIAL FISH LANDINGS IN THE SAN FRANCISCO REGION DURING 1945
Fishing Boat Landings From California Waters

COMMERCIAL FISH CATCH OF CALIFORNIA

53

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....					2,500	51,350	76,880	34,860	27,190	99,250			292,030
Cabezone.....	25			46	2,231	591	31		50	183	155		3,492
Carp.....						27,190					8,312	21,133	66,528
Calfish.....								22		200			200
Culus, Pacific.....	11,357	4,902	9,292	8,575	18,007	7,166	17,879	15,686	12,077	17,788	15,185	10,018	147,932
Flounder, Slarry.....	20,484	31,908	20,179	19,413	8,942	1,585	5,459	7,162	20,738	25,396	13,282	15,236	158,784
Hake.....	20			12	249			32					313
Halibut, California*.....	12,902	16,487	4,455	1,006	6,243	44	347	170	3,274	6,468	2,761	8,358	62,415
Halibut, Northern.....	120	68									24		212
Hardhead.....													212
Herring, Pacific.....	147,491	30,223	100,599	73					3,237	1,820	351	2,680	8,088
Kingfish.....	290	50	50	2,158	2,331	335	691	202	800	603	729	30,190	309,305
Mackerel, Pacific.....									1,705		376	369	8,255
									3,087	2,762	2,618	1,864	2,017
Perch.....	3,230	5,134	27,853	29,845	40		2,095	2,506					81,034
Pompano, California.....													89
Rockfish.....	12,201	4,974	4,547	6,689	26,649	5,580	8,185	19,222	24,841	21,144	19,191	32,333	185,536
Sablefish.....	3,974	5,904	995	37,057	21,247	3,215	4,636	16,419	13,852	41,458	14,360	2,244	165,361
Salmon.....				38	385,257	626,518	520,817	385,405	503,918				2,431,954
Sand Dab.....	43,598		89,477	50,543	12,396	11,834	1,104	8,915	3,476	13,889	22,760	16,356	325,038
Sardine.....	10,197,100	2,695,800				47,350	201,900	26,428,450	56,235,360	43,003,800	10,007,600	484,700	149,362,060
Sea-bass, White.....	1,331	737	281	973	37		13		85	14,060	3,101	13,817	34,435
Shad.....				13	27		236						276
Shark.....	41,069	13,972	5,186	3,932		13,538	69,901	87,243	62,164	38,913	26,715	32,435	395,068
Skate.....	5,710	5,220	8,340	6,201	770	100		425			1,500	2,110	30,376
Snelt.....	14,050	473,811	452,968	397,109	132,733	128,330	71,235	20,281	10,454	6,306	3,108	5,479	1,715,894
Sole.....	235,653	302,361	345,654	328,974	170,839	58,107	82,274	123,646	84,440	134,650	103,550	163,698	2,133,492
Tuna, Albacore.....	142							589	90		165		4,285
Tuna, Bluefin.....											1,039		1,039
Tuna, Yellowfin.....													
Turbot.....	610	4,770	6,469	11,475	863	1,455	625		3,022	3,022	1,167	4,187	3,022
Whitebait.....	1,259	6,488	3,873	1,225	2,986	5,512	4,152	165	20	256	6,902	14,368	38,417
Miscellaneous Fish.....	1,229	375	1,893	1,313	390	143		880	5,775	70	26,503	584	46,950
													39,125
Crustacean:													
Crab.....	322,803	162,310	169,196	215,268	239,592	176,975	155,435	59,645			857,619	555,631	2,914,474
Shrimp.....	18,107	11,601	5,650	10,574	27,555	38,353	92,193	78,081	34,716	40,163	25,580	29,624	382,147
Mollusk:													
Abalone.....	4,738		2,750	51,421	49,641	17,950	98,769	104,766	52,025	8,250			390,310
Clam, Soft-shell.....	1,416	1,128	1,554	1,420	1,355	1,341	1,261	1,056	778	525	508	445	13,067
Oceanus.....	554	372	1,004	1,004	482	482	888	611	113	110	432	1,357	7,144
Oyster, Eastern.....	20,877	9,209	6,964	7,689	4,418	3,483		2,750	2,875	2,890	7,901	1,357	65,581
Oyster, Pacific.....	6,082	7,358	10,491	12,996	11,748	8,129	10,872	5,227	4,850	1,550	600	625	80,328
Grand totals, San Francisco Region.....	11,117,775	3,848,974	1,276,090	1,207,023	1,139,968	1,236,745	1,397,405	27,405,041	57,116,040	43,561,022	11,173,318	1,457,932	161,937,333

* As reported by buyers. However, field investigations indicate that almost all landings at San Francisco are northern halibut.

COMMERCIAL FISH LANDINGS IN THE SANTA BARBARA REGION DURING 1945
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda.....	205	978					173	239	23	402	2,137	4,385	8,130
Cutus, Pacific.....	134	35			85	161	4		191	179	12	3,497	4,656
Flounder, Starry.....	463	200			63,951	52,842	48,172	107,313	87,308	73,426	84,339	79,745	926,451
Halibut, California.....	82,698	39,192	84,990	418	746		282						1,446
Kingfish.....										192			1,192
Mackerel, Jack.....	2,641	225			70	38	5,928	40,079	57,762	23,697	10,687	205	141,352
Mackerel, Pacific.....	420	202	148	1,520			16,634	3,070	1,259	663	1,033	174	26,211
Pompano, California.....									18	631	1,133	3,433	18,102
Rock Bass.....	682	277	71	343	201	4,388	5,413	1,512	13,369	6,180	11,413	7,285	99,095
Rockfish.....	5,330	4,903	5,908	15,644	10,992	13,312	2,912	1,967					1,467
Sablefish.....				22	142	1,268	35						36,783
Salmon.....				4,584	15,711	9,052	7,436						277
Sardine.....							277						3,752
Sculpin.....	1,343	1,017	124	105	260	151			18			752	2,124
Sea-bass, Black.....		70	94	171	1,010	43	218					500	154,042
Sea-bass, White.....	2,102	442	5,666	285	1,308	11,935	46,787	52,062	22,819	2,718	3,987	3,841	481,128
Shark.....	25,231	16,525	5,006	10,535	96,396	120,484	44,820	104,185	25,209	12,423	5,567	14,747	103,313
Sheepshead.....	21,615	10,855	11,076	14,870	9,398	7,812	49		982	9,040	7,364	11,234	9,602
Skate.....				180	345	1,870	2,565	3,605		45			28,045
Smelt.....	910	4,403	1,180	11,791	2,999	2,079	2,424	752	476	600	3	28	282,869
Sole.....	8,413	11,713	13,081	24,684	23,490	41,524	46,450	31,683	21,329	21,784	19,148	19,561	282,869
Swordfish, Broadbill.....							2,937	5,670	8,722	21,068	3,018		41,415
Tuna, Albacore*.....					185		190,169	186,568	116,539	219,534	7,345		120,155
Tuna, Bluefin.....							21,300	1,664	133,941	10,545			167,635
Tuna, Bonito.....								8	26,765	267	1,845	531	29,518
Tuna, Skipjack.....									718	5,535			6,253
Tuna, Yellowfin.....									113	92			205
Turbot.....	4,040	2,765	2,566	3,743	4,866	7,247							25,227
Whitefish, Ocean.....	1,915	320	4,114		7,030	3,310	5,678			2,887	185	817	26,266
Miscellaneous Fish.....	2,380	1,091	397	1,109	2,426	3,290	2,511	1,736	1,813	1,521	1,431	898	20,603
Crustacean:													
Crab.....													
Lobster, Spiny.....	23,511	17,001	11,867		351		68	146			256	194	1,015
											18,792	19,264	125,813
Mollusk:													
Abalone.....	130,500		17,150	230,950	183,625	136,725	241,600	205,700	156,100	150,325	124,625	122,975	1,700,275
Clam, Pismo.....	4,118	2,094	2,633	1,428	3,263	2,360	3,201	874	648	657	1,462	965	23,733
Oyster, Pacific.....	34,230	33,240	49,650	18,090	13,680	8,670	12,750	15,030	12,100	5,400	16,200	10,170	229,210
Total pounds.....	353,073	147,548	215,721	492,947	442,159	428,912	710,702	763,863	564,836	738,565	321,932	306,463	5,446,771

* Includes albacore delivered to barges off San Diego and Santa Catalina Island but reported at Santa Barbara although landed at other ports.

TABLE 35—Continued
Fishing Boat Landings From Waters South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Halibut, California.....								11,257					11,257
Sea-bass, White.....								5,356					5,356
Swordfish, Broadbill.....									2,053		2,579		4,632
Total pounds.....								16,613		2,053	2,579		21,245
Grand totals, Santa Barbara Region.....	353,073	147,548	215,721	462,047	442,159	425,912	710,702	780,476	564,836	730,618	324,561	306,463	5,468,016

TABLE 36
COMMERCIAL FISH LANDINGS IN THE LOS ANGELES REGION DURING 1945
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchorvy.....	205,195	13,869	509	2,440	51,116	69,945	56,971	107,909	118,891	14,010	408,405	147,208	1,196,528
Barracuda.....	1,819	9,990	17,711	65,074	281,003	144,236	19,685	33,212	4,452	1,188	1,032		579,402
Carp.....	159	106	7,337	7,043	4,734	3,442	3,736	3,060					29,667
Cultus, Pacific.....	40			305	642	575	39			281		17	1,849
Flounder, Starry.....		40	76	2		28	477			19		43	685
Flying Fish.....				203	6,476	468	20						6,167
Halibut, California.....	49,229	54,783	47,098	83,071	48,132	58,679	19,304	1,560	1,005	24,484	28,040	55,560	470,935
Kingfish.....	9,830	8,245	39,192	37,570	26,439	31,085	9,237	10,343	8,448	9,403	13,249	4,941	207,982
Mackerel, Jack.....	1,183,036	216,644	54	3,128	10,359	17,945	10,109	2,352	38,794	814,475	2,680,156	3,804,097	8,781,199
Mackerel, Pacific.....	4,198,449	730,534	79,681	330,210	262,375	128,735	62,725	1,032,744	7,074,450	14,651,954	13,784,709	10,495,146	52,831,712
Mullet.....	33,316	7,900	18,944	23,504	22,042	11,039							116,745
Perch.....	629	944	4,926	10,373	650	882	1,207	4,527	5,037	3,317	1,851	1,453	35,298
Pompano, California.....	588	5,320	16,941	12,938	6,926	1,730	2,403	2,355	2,532	1,080	4,991	3,358	61,142
Rock Bass.....	11,225	4,811	3,550	3,135	3,847	24,322	7,788	3,582	2,031	7,678	6,974	1,308	80,251

Rockfish.....	3,324	1,119	1,191	3,706	12,809	10,492	279	1,118	3,301	9,770	2,255	10,180	59,453
Sablefish.....	48	312	340	285	5	317	109	867	1,452	575	310	1,733	6,486
Sand Dab.....	1,002	931	1,352	1,322	515	694	151	405	56	49	426	426	6,637
Sardine.....	43,246,927	21,719,555	2,640	14,933	89,180	92,811	4,405	46,413	891,137	109,979,810	60,803,908	337,439,607	21,702
Sculpin.....	1,978	2,396	3,114	1,253	4,507	13,485	10,943	9,506	9,146	3,539	2,987	8,343	8,161
Sea-bass, Black.....	3,668	65	570	17	104	1,518	709	2,602	277	404	1,678	197	99,485
Sea-bass, White.....	18,915	5,647	511	4,854	26,740	21,249	18,861	13,888	1,819	3,071	1,372	105	655,579
Shark.....	4,234	2,534	9,713	33,439	70,727	163,098	163,021	65,026	46,089	33,698	18,489	25,120	56,237
Sheepshead.....	745	1,318	469	1,660	3,310	14,522	1,940	5,173	3,745	6,724	6,410	2,338	5,745
Skate.....	51,585	10,013	7,678	2,054	38	85	1,940	22,494	11,956	21	485	530	231,286
Snelt.....	1,670	1,530	981	979	280	15,772	17,334	22,494	11,956	21,088	22,325	20,464	8,163
Sole.....	---	---	---	---	---	1,886	218	12	27	284	38	258	1,328
Sucker.....	---	---	---	---	---	1,328	---	---	---	---	---	---	116,292
Swordfish, Broadbill.....	305	---	---	---	---	1,994	15,498	3,371	10,335	60,404	23,618	1,072	5,325,574
Tuna, Albacore.....	---	---	---	---	---	3,950	2,348,001	390,600	303,110	2,094,485	185,092	31	12,406,789
Tuna, Bluefin.....	---	---	---	---	---	3,088,825	3,583,212	3,417,009	508,201	227,971	55,314	---	228,019
Tuna, Bonito.....	---	---	---	---	---	372	397	410	18,086	168,468	40,631	1,397	72,656
Tuna, Skipjack.....	---	---	---	---	---	---	---	---	63,014	9,632	10	---	463
Tuna, Yellowfin.....	---	---	---	---	---	---	---	38	425	---	---	---	987
Turbot.....	227	733	22	117	9	1,089	---	---	481	1,361	830	648	5,746
Whitefish, Ocean.....	139	354	718	---	---	560	5,942	31	105	213	---	---	6,851
Yellowtail.....	---	---	---	---	---	4,922	3,094	12,085	1,462	1,360	2,157	1,131	45,694
Miscellaneous Fish.....	8,927	1,784	764	3,992	4,026	---	---	---	---	---	---	---	---
Crustacean:	---	---	---	---	---	---	---	---	---	---	---	---	---
Crab.....	200	1,422	2,105	2,505	1,504	3,250	200	250	713	24	15	---	12,188
Lobster, Spiny.....	19,725	14,976	6,666	---	---	---	---	---	26	60,863	29,842	21,478	153,576
Mollusk:	---	---	---	---	---	---	---	---	---	---	---	---	---
Abalone.....	9,652	---	11,840	38,860	23,684	27,636	17,996	18,361	9,818	1,925	1,518	1,765	163,055
Clam, Cockle.....	---	---	---	---	50	812	205	---	---	---	---	---	1,067
Squid.....	---	12,470	---	425	1,200	---	3,655	---	590	---	7,910	28,710	51,860
Total pounds.....	49,066,922	22,838,931	292,245	708,727	2,542,788	3,913,278	6,388,019	5,210,767	9,139,011	127,836,617	118,312,552	75,440,009	421,689,866

Fishing Boat Landings From Waters North of the State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore.....	---	---	---	---	---	---	---	---	232,850	---	---	---	232,850
Total pounds.....	---	---	---	---	---	---	---	---	232,850	---	---	---	232,850

TABLE 36—Continued
Fishing Boat Landings From Waters South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda.....	108,760	379,987	367,768	13,829	51,538	280	37,881	---	269,073	245,707	90,480	98,725	1,653,328
Cabrilla.....	---	8,187	8,629	20,870	45,856	45,856	48,421	5,727	515	44,003	81,022	49,749	355,427
Corbina, Mexican.....	---	---	---	1,219	---	---	---	---	---	6,046	1,701	16,605	1,219
Grouper.....	---	7,419	170	1,560	759	3,144	273	30,099	17,068	1,807	---	---	37,404
Haitbut, California.....	---	---	---	1,675	---	257	---	---	264	388	248	451	50,922
Mackerel, Spanish.....	724	---	---	---	---	---	---	---	---	---	---	---	2,332
Perch.....	---	---	---	---	270	---	---	---	---	---	---	70	340
Rock Bass.....	---	4,175	637	1,308	---	410	2,273	70	345	325	1,019	1,577	12,339
Rockfish.....	---	216	---	---	---	---	---	---	---	---	---	---	216
Sea-bass, Black.....	429	3,863	10,451	2,129	15,585	1,772	23	2,075	7,964	36,683	9,497	49,495	139,966
Sea-bass, White.....	60	---	---	---	---	---	---	---	---	87,758	24,509	454	112,781
Sheepshead.....	---	150	---	244	---	---	---	---	---	---	---	1,932	2,326
Swordfish, Broadbill.....	---	---	---	---	372	---	---	1,585	---	4,841	---	---	6,798
Tuna, Albacore.....	4,793	145	---	---	---	---	89,188	1,025,491	206,792	25,382	1,525	---	1,353,316
Tuna, Bluefin.....	---	216,998	637,010	732,144	698,974	463,969	1,739,336	1,537,547	205,908	---	---	325	6,232,256
Tuna, Bonito.....	118,347	16,820	320	88	1,390	---	18,436	231,426	541,022	400,498	97,006	13,986	1,449,939
Tuna, Skipjack.....	54,302	73,631	17,969	1,153,178	2,061,226	1,046,067	433,150	831,483	1,457,467	1,181,066	531,576	317,020	9,158,675
Tuna, Yellowfin.....	396,559	930,950	808,291	4,254,558	8,043,445	7,946,942	4,576,654	1,210,805	743,962	184,430	2,102,945	1,111,908	32,311,479
Whitefish, Ocean.....	2,262	---	---	3,021	203	---	---	---	---	---	---	336	5,822
Yellowtail.....	11,202	---	3,780	9,864	40,889	325,935	459,009	519,102	217,063	81,028	40,668	56,136	1,764,676
Miscellaneous Fish.....	---	130	180	80	---	20	39	9	85	---	---	---	543
Crustacean:	---	---	---	---	---	---	---	---	---	---	---	---	---
Lobster, Spiny.....	---	1,679	---	---	---	---	---	---	---	---	---	---	1,679
Mollusk:	---	---	---	---	---	---	---	---	---	---	---	---	---
Abalone.....	---	---	---	---	2,119	4,570	5,069	2,077	---	---	---	---	13,835
Total pounds.....	692,438	1,643,650	1,855,145	6,195,767	10,950,218	9,839,822	7,409,782	5,407,496	3,667,528	2,300,162	2,982,841	1,713,769	54,667,618

TABLE 36—Continued
Shipments to Canneries From North of the State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Albacore									34,216		26,685		60,901
Total pounds									34,216		26,685		60,901

Shipments to Canneries From South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Skipjack								74,489					74,489
Tuna, Yellowfin								708,567		209,526			978,093
Mollusk:													
Clam, Pismo	2,634,616	3,793,456	3,901,192	2,963,240	3,191,384	3,458,120	4,973,032	3,263,736	3,927,688	5,747,696	7,372,040	8,188,000	53,414,200
Total pounds	2,634,616	3,793,456	3,901,192	2,963,240	3,191,384	3,458,120	4,973,032	4,106,792	3,927,688	5,957,222	7,372,040	8,188,000	54,466,782
Grand totals, Los Angeles Region	52,393,976	28,276,037	6,048,582	9,867,734	16,893,390	17,211,220	18,770,833	14,725,055	17,001,293	136,094,001	128,694,118	85,341,778	531,118,017

TABLE 37
COMMERCIAL FISH LANDINGS IN THE SAN DIEGO REGION DURING 1945
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....	2,912	---	407	46,813	445,496	541,362	100	738	80,045	3,660	8,218	962	1,157,028
Barracuda.....	---	---	---	---	---	---	26,415	---	---	---	---	145	145
Cutthroat, Pacific.....	---	---	---	---	---	---	---	---	---	---	---	16,172	144,160
Halibut, California.....	443	420	22,456	28,662	7,039	3,242	4,674	50	7,002	18,553	35,477	1,808	3,865
Herring, Pacific.....	---	---	---	---	---	---	---	---	---	---	2,157	180	382
Kingfish.....	---	---	---	---	15	75	---	---	---	---	77	---	809
Mackerel, Jack.....	534	---	---	---	---	---	---	---	---	---	---	---	286,434
Mackerel, Pacific.....	3,400	1,248	60	12,101	70,637	124,637	3,374	12,010	15,415	10,794	29,634	3,074	187,646
Mullet.....	57,474	11,639	31,491	16,669	44,866	20,060	5,320	---	---	127	---	---	270
Pompano, California.....	---	---	---	---	---	---	---	---	---	---	---	---	22,131
Rock Bass.....	499	1,070	177	107	28	1,425	9,884	1,913	646	1,650	3,047	1,685	817
Rockfish.....	3,441,114	6,108	975	387	---	42	---	---	---	---	1,621	---	10,048
Sardine.....	331	50,104	---	276	20	72	---	836	---	658,085	589,801	653,458	5,392,562
Sea-bass, Black.....	---	---	---	---	885	75	---	74	---	2,301	9,158	4,923	17,917
Sea-bass, White.....	---	---	---	12,089	24,383	22,907	3,672	1,353	392	203	578	411	2,043
Shark.....	3,842	37	2,554	19,099	17,407	39,858	3,723	9,728	27,206	10,647	12,147	9,656	86,802
Sheepshead.....	2,145	598	80	47	52	---	---	---	---	13,905	15,093	13,959	163,153
Smelt.....	63	89	185	---	---	155	---	---	---	---	8,454	5,513	30,792
Sole.....	---	---	---	---	---	---	---	---	---	---	---	205	697
Swordfish, Broadbill.....	---	---	---	---	---	---	857	83	---	---	---	---	83
Tuna, Albacore.....	---	---	---	---	---	75	1,037,885	667,082	316,136	1,874	7,533	207	10,471
Tuna, Bluefin.....	---	---	---	---	---	---	---	---	---	204,772	46,409	---	2,272,369
Tuna, Bonito.....	---	---	---	---	474,544	916,795	170,920	140	1,234	---	---	---	1,563,663
Tuna, Skipjack.....	---	---	---	291	1,536	30,156	468	946	39,571	7,364	1,795	30	82,127
Tuna, Yellowfin.....	---	---	---	---	---	---	---	73	4,660	9,187	249	---	14,169
Whitefish, Ocean.....	---	---	---	---	55	96	---	128	469	521	---	---	1,269
Yellowtail.....	---	---	---	35	2,764	370	---	151	48	139	70	---	778
Miscellaneous Fish.....	---	---	---	---	354	1,386	459	50	4,931	11,293	1,228	429	22,595
Crustacean:	---	---	---	---	---	---	---	---	---	24	183	42	603
Lobster, Spiny.....	20,587	3,773	5,147	---	---	---	---	---	104,012	---	44,598	21,613	199,730
Mollusk:	---	---	---	---	---	---	---	---	---	---	---	---	---
Abalone.....	80	---	---	4,807	2,913	---	---	---	---	---	---	---	7,800
Total pounds.....	3,533,424	75,084	63,532	141,383	1,093,014	1,702,788	1,267,751	695,365	497,755	1,059,509	817,877	735,259	11,682,741

TABLE 37—Continued
Fishing Boat Landings From Waters South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda.....	3,866	5,434	17,589	100,400	13,872	2,837	2,590	140	45,104	132,089	77,454	68,804	475,369
Cabrilla.....	2,229	10,951	5,228	672	13,415	53,153	98,366	-----	953	260	14,485	23,019	222,731
Grouper.....	1,844	595	956	14,000	3,945	8,556	11,008	-----	-----	-----	5,287	8,840	55,081
Halibut, California.....	9,850	5,134	819	-----	-----	2,220	23	1,937	1,773	44,407	20,276	18,053	104,492
Kingfish.....	-----	-----	-----	177	-----	-----	-----	-----	-----	-----	-----	-----	177
Mackerel, Spanish.....	380	54	-----	207	2,227	1,141	2,118	55	-----	2,140	-----	1,184	9,522
Perch.....	-----	-----	-----	-----	3,475	-----	-----	-----	-----	-----	-----	-----	3,475
Rock Bass.....	954	893	4,708	3,024	5,519	4,289	1,870	1,174	3,703	1,957	-----	2,842	31,023
Rockfish.....	-----	-----	3,800	-----	-----	9,712	68	4,062	3,923	4,780	9,096	610	36,031
Sculpin.....	-----	288	-----	-----	157	850	-----	-----	490	-----	-----	-----	1,785
Sea-bass, Black.....	1,205	2,811	9,567	11,763	8,126	64,200	12,209	598	2,528	4,857	13,732	46,653	178,249
Sea-bass, White.....	1,606	644	-----	1,896	16,511	1,012	110	-----	1,027	5,197	105	1,017	29,195
Shark.....	1,445	-----	37	2,090	2,816	1,800	-----	793	-----	1,197	930	-----	11,108
Sheepshead.....	2,297	6,829	11,448	14,089	5,955	7,823	2,379	-----	-----	3,714	664	1,718	56,916
Smelt.....	-----	-----	-----	-----	-----	-----	-----	-----	193	-----	-----	-----	193
Swordbill.....	-----	-----	-----	-----	-----	-----	5,018	14,600	50,555	104,834	8,319	159	183,485
Tuna, Albacore.....	63,441	2,213	-----	-----	-----	2,150	1,065,521	7,720,922	1,868,069	172,686	13,656	63	10,908,721
Tuna, Bluefin.....	-----	11,405	9,837	-----	-----	122,266	8,248	31,369	14,172	25,430	-----	-----	222,727
Tuna, Bonito.....	24,034	46,379	7,229	50,319	29,298	880	1,254	25	79,176	279,043	266,114	140,849	924,578
Tuna, Skipjack.....	620,480	521,746	218,175	144,057	220,288	418,886	989,583	746,087	3,424,454	9,582,908	4,330,691	2,804,549	24,021,654
Tuna, Yellowfin.....	2,263,130	3,541,633	3,737,109	3,081,858	5,021,074	8,614,878	5,468,241	2,938,644	3,233,060	5,390,762	5,390,762	8,279,101	53,814,018
Whitefish, Ocean.....	6,107	4,198	3,882	2,037	2,528	305	1,782	-----	204	711	115	1,517	23,386
Yellowtail.....	141,995	125,162	82,732	122,048	183,024	42,295	66,848	8,171	333,645	271,632	167,974	194,404	1,739,930
Miscellaneous Fish.....	-----	-----	-----	-----	-----	24	240	100	215	-----	-----	-----	579
Crustacean:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lobster, Spiny.....	185,874	98,041	208,419	35,300	-----	-----	-----	-----	-----	22,730	57,475	213,785	791,624
Mollusk:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Abalone.....	-----	-----	-----	-----	-----	-----	-----	252	776	510	-----	1,896	3,424
Total pounds.....	3,336,847	4,354,410	4,321,535	3,583,937	5,537,230	9,259,057	7,737,476	11,468,879	9,064,200	12,999,616	10,377,135	11,809,061	93,849,383

TABLE 37—Continued
Shipments to Canneries From South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Yellowfin.....										339,496			339,496
Total pounds.....										339,496			339,496
Grand totals, San Diego Region.....	6,870,271	4,429,494	4,385,067	3,725,320	6,630,244	10,961,845	9,005,227	12,164,244	9,561,955	14,398,621	11,195,012	12,544,320	105,871,620

TABLE 38
ORIGIN OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1946

Species	California	North of the State Boundary	South of the International Boundary	Total pounds
Anchovy	1,921,627			1,921,627
Barracuda	1,636,135		1,470,380	3,106,515
Cabezone	7,809			7,809
Cabrilla			261,689	261,689
Carp	235,311			235,311
Catfish	410,333			410,333
Cultus, Pacific	1,126,538	29,162		1,155,700
Eel	596			596
Flounder, Starry	509,032	416		509,448
Flying Fish	41,236			41,236
Grouper			157,764	157,764
Hake	530			530
Halibut, California ^a	1,718,397		781,907	2,500,304
Halibut, Northern	358,376			358,376
Hardhead	33,676			33,676
Herring, Pacific	481,776			481,776
Kingfish	437,023			437,023
Mackerel, Jack	15,093,261			15,093,261
Mackerel, Pacific	53,875,293			53,875,293
Mackerel, Spanish			6,390	6,390
Mullet ^b	84,335			84,335
Perch	192,366		260	192,626
Pike	123			123
Pompano, California	86,693			86,693
Rock Bass	147,278		60,234	207,512
Rockfish	10,473,910	646,288	53,128	11,173,326
Sablefish	2,626,318	32,814		2,659,132
Salmon	13,658,201			13,658,201
Sand Dab	678,437	635		679,072
Sardine	510,759,173			510,759,173
Sculpin	144,691		363	145,054
Sea-bass, Black	26,300		406,236	432,536
Sea-bass, White	471,649		144,272	615,921
Shad	771,231			771,231
Shark	1,577,716	1,803	25,828	1,605,347
Sheepshead	241,012		26,108	267,120
Skate	78,038			78,038
Smelt	793,091			793,091
Sole	10,296,815	271,788		10,568,603
Split-tail	2,869			2,869
Sucker	335			335
Swordfish, Broadbill	621,937		237,113	859,050
Tuna, Albacore	9,103,457	2,434	8,962,447	18,068,338
Tuna, Bluefin	15,529,229		6,502,519	22,031,748
Tuna, Bonito	582,853		5,042,700	5,625,553
Tuna, Skipjack	1,747,060		39,340,934	41,087,994
Tuna, Yellowfin	32,653		127,214,022	127,246,675
Turbot	48,091	1,710		49,801
Whitebait	344,107			344,107
Whitefish, Ocean	29,570		27,701	57,271
Yellowtail	31,285		4,530,298	4,561,583
Miscellaneous Fish	171,753	230	4,017	176,000
Crustacean:				
Crab	9,644,405			9,644,405
Lobster, Spiny	691,814		1,225,767	1,917,581
Shrimp	437,320			437,320
Mollusk:				
Abalone	2,095,762			2,095,762
Clam, Pismo	69,177		11,408,496	11,477,673
Clam, Soft-shell	22,239			22,239
Clam, Washington	20,341			20,341
Mussel	639			639
Octopus	37,931			37,931
Oyster, Eastern	84,603			84,603
Oyster, Pacific	88,006			88,006
Squid	38,024,528			38,024,528
Total pounds	710,456,290	987,280	207,890,573	919,334,143

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers. For detail see page 38.

^a See footnote a, Table 39.

^b Includes part but not all of the poundage of mullet taken in the Salton Sea.

TABLE 39
POUNDS AND VALUE OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1946

Species	Eureka Region		Sacramento Region		San Francisco Region		Monterey Region	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Anchovy.....					263,776	\$8,487	248,096	\$3,952
Barracuda.....								
Cabezone.....					2,805	67	5,004	167
Cabrilla.....								
Carp.....			105,275	\$5,496	71,941	5,140	57,750	1,011
Catfish.....			401,946	105,964	8,387	2,420		
Cultus, Pacific.....	912,582	\$84,653			199,967	13,932	31,384	2,410
Eel.....								
Flounder, Starry.....	247,526	9,870			210,887	9,432	49,391	2,673
Flying Fish.....								
Grouper.....								
Hake.....	530	135						
Halibut, California.....	355,557	71,106			49,973	6,507	209,665	31,456
Halibut, Northern.....					2,819	345		
Hardhead.....				973	30,434	6,721		
Herring, Pacific.....	17,470	334	3,242		488,447	8,799	5,089	172
Kingfish.....					8,113	374	281,695	14,825
Mackerel, Jack.....							7,161,038	152,630
Mackerel, Pacific.....							1,923,078	42,885
Mackerel, Spanish.....								
Mullet.....								
Perch.....	40,734	4,467			72,426	11,103	23,015	1,897
Pike.....			123	11				
Pompano, California.....					492	216	44,056	14,538
Rock Bass.....								
Rockfish.....	9,476,882	429,365			221,123	12,630	1,119,966	83,034
Sablefish.....	2,011,198	204,539			99,637	7,908	533,352	42,095
Salmon.....	4,544,037	954,347	6,463,245	921,304	2,079,449	390,297	569,350	108,175
Sand Dab.....	374,237	15,317			252,660	11,387	37,997	3,602
Sardine.....			305,000	9,150	6,096,124	139,364	71,742,381	1,155,243
Sculpin.....								
Sea-bass, Black.....								
Sea-bass, White.....	13,953	2,260					53,112	10,531
Shad.....			771,231	39,199				
Shark.....	242,580	200,745			246,793	884,173	124,866	10,906
Sheepshead.....								

Skate.....	3,632	56			31,128	365	25,669	573
Smelt.....	96,302	7,958			462,316	32,886	6,589	6,589
Sole.....	7,761,522	369,259			2,355,188	114,450	94,782	11,882
Spot-tail.....			*	2,869			218,296	
Sucker.....								
Swordfish, Broadbill.....								
Tuna, Albacore.....	61,346	12,378			10,977	2,247	249,610	51,167
Tuna, Bluefin.....								
Tuna, Bonito.....								
Tuna, Skipjack.....								
Tuna, Yellowfin.....								
Turbot.....	14,086	856			33,804	1,408	1,911	73
Whitebait.....	278,251	25,196			65,751	5,100	105	16
Whitefish, Ocean.....								
Yellowtail.....								
Miscellaneous Fish.....	76,598	4,462	35	6	19,135	775	367	41
Crustacean:								
Crab.....								
Crab, b.....	5,822,398	728,951			3,748,144	577,191	62,266	11,144
Lobster, Spiny.....								
Shrimp.....					432,145	20,630	5,175	1,384
Mollusk:								
Abalone.....								
Clam.....					15,161	2,005	218,578	28,856
Clam, Pismo.....							4,877	610
Clam, Soft-shell.....								
Clam, Washington.....					22,239	1,335		
Mussel.....	20,341	1,577						
Octopus.....							639	64
Oyster, Eastern.....	20,212	1,248			11,499	792	5,607	787
Oyster, Pacific.....					84,603	13,393		
Squid.....	198	20			1,725	161		
Total pounds and value.....	32,392,178	\$3,129,099	8,050,966	\$1,082,331	17,890,225	\$2,295,943	123,111,509	\$3,009,484

^a As reported by buyers. However, field investigations indicate that almost all landings at San Francisco are northern halibut.

^b For regions north of Santa Barbara crab landings are market crab, in Santa Barbara Region both market and rock crab, in Los Angeles Region rock crab.

TABLE 39—Continued
POUNDS AND VALUE OF COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1946

Species	Santa Barbara Region		Los Angeles Region		San Diego Region		Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Anchovy	4,998	\$346	1,404,342	\$29,836	415	\$18	1,921,627	\$42,639
Barrauda	5,724	538	1,737,546	242,925	1,315,245	156,026	3,106,515	399,489
Cabazon							7,809	234
Cabrilla			133,888	19,234	127,801	13,731	261,689	32,965
Carp			2,345	251			235,311	11,898
Catfish							410,333	108,384
Cultus, Pacific	8,658	750	1,081	97	2,028	201	1,155,700	102,043
Eel	596	36					596	36
Flounder, Starry			1,644	117			509,448	22,092
Flying Fish			41,236	3,153			41,236	3,153
Grouper			45,303	6,050	112,461	11,986	157,764	18,036
Hake							530	135
Halibut, California	497,793	87,311	1,047,282	187,748	695,591	120,288	2,500,304	433,310
Halibut, Northern							353,376	71,451
Hardhead							33,676	7,694
Herring, Pacific					770	23	481,776	9,328
Kingfish	9,020	360	133,401	7,006	4,794	431	437,023	22,996
Mackerel, Jack			7,831,623	174,723			15,093,261	327,353
Mackerel, Pacific	10,132	602	51,702,719	1,376,234	239,364	11,741	53,875,293	1,431,462
Mackerel, Spanish			3,443	340	2,947	150	6,390	490
Mullet			4,612	323	79,723	8,162	84,335	8,485
Perch	6,731	600	49,310	7,315	410	19	192,626	25,401
Pike							123	11
Pompano, California	100	21	41,941	6,901	104	17	86,693	21,693
Rock Bass	22,540	2,986	94,861	13,601	90,111	10,887	207,512	27,474
Rockfish	107,534	7,485	176,751	14,054	71,070	5,657	11,173,326	552,225
Sablefish			14,915	1,401			2,659,132	255,043
Salmon	2,120	466					13,653,201	2,374,589
Sand Dab	328	15	13,850	2,192			679,072	32,513
Sardine	176	6	423,992,067	5,395,340	8,623,425	153,926	510,759,173	6,853,034
Sculpin					34,627	3,590	145,054	20,333
Sea-bass, Black	1,029	64	109,398	16,679	197,869	28,065	432,536	68,534
Sea-bass, White	2,298	251	232,369	40,218			615,921	117,447
Sea-bass, White	206,899	35,837	157,359	33,548	164,441	31,368	771,231	39,199
Shad								
Shark	310,106	235,344	524,356	273,245	156,640	10,460	1,605,347	1,614,873
Sheepshead	81,433	5,972	143,319	12,170	42,368	3,226	267,120	21,368

Slate.....	258	17	17,351	978	78,038	1,980
Suit.....	9,113	707	130,578	9,320	793,091	57,460
Sole.....	227,194	10,285	6,085	405	10,598,603	506,313
Split-tail.....					32	2,869
Sucker.....						228
Swordfish, Broadbill.....	144,779	44,887	357,409	60	356,862	60
Tuna, Albacore.....	91,912	18,312	6,914,470	111,685	113,118	269,190
Tuna, Bluefin.....	19,452	1,849	20,397,419	1,378,911	10,740,023	3,587,298
Tuna, Bonito.....	3,744	310	3,425,960	2,080,434	1,614,877	2,243,759
Tuna, Skipjack.....	123	13	16,094,462	311,451	2,195,949	535,999,993
Tuna, Yellowfin.....	575	47	43,151,724	1,608,264	24,993,409	4,283,130
Turbot.....				4,631,851	84,094,376	14,613,722
Whitebait.....					9,981,824	2,337
Whitefish, Ocean.....	6,670	764	33,973	3,291	344,107	30,312
Yellowtail.....	31,173	2,734	2,434,359	195,148	1,509	5,564
Miscellaneous Fish.....			45,680	4,297	179,164	374,312
Crustacean:					281	12,596
Crab.....	556	76	11,041	1,189	9,644,405	1,318,551
Lobster, Spiny.....	152,826	43,985	542,632	199,761	1,917,531	611,140
Shrimp.....					437,320	22,014
Mollusk:						
Abalone.....	1,802,881	217,034	59,142	6,537	2,065,762	254,452
Clam, Pismo.....	64,300	8,650	9,678,688	253,333	11,477,673	295,582
Clam, Soft-shell.....					22,239	1,335
Clam, Washington.....					20,341	1,577
Mussel.....						64
Octopus.....	372	31	241	29	37,931	2,837
Oyster, Eastern.....					84,603	13,393
Oyster, Pacific.....	86,281	5,794			88,006	5,955
Squid.....	133	5	21,485	666	38,024,528	1,214,782
Total pounds and value.....	3,918,557	\$733,990	593,113,985	\$18,662,381	141,056,723	\$16,433,078
						919,334,143
						\$45,346,306

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers. For detail see page 38.

Total pounds and value.

TABLE 40
MONTHLY COMMERCIAL FISH LANDINGS IN CALIFORNIA DURING 1946

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....	111,252	33,915	10,876	66,452	127,450	55,442	104,494	106,411	320,485	305,49	257,350	422,010	1,921,697
Barracuda.....	82,640	164,868	319,098	205,799	366,203	623,118	365,970	224,796	299,613	160,477	177,107	116,826	3,106,515
Cabezone.....	1,810	610	506	1,950	1,323	40	78	44	6,217	92	100	1,180	7,809
Cabrilla.....	3,353	55,608	60,714	28,962	13,216	20,639	831	1,193	30,862	4,441	31,885	38,823	261,689
Carp.....	5,299	21,759	17,681	36,046	20,422	9,216	58,264	1,193	30,862	20,637	10,129	38,823	235,311
Catfish.....	42,032	23,826	37,451	37,451	4,497	9,216	58,264	1,193	30,862	89,932	97,232	57,154	410,333
Cutlus, Pacific.....	29,427	51,249	30,072	99,925	131,831	125,075	148,909	137,966	171,286	112,155	24,873	92,832	1,155,700
Eel.....	37,185	8,747	36,549	58,075	16,268	19,791	26,056	35,930	54,601	68,021	15,995	60,230	509,448
Flounder, Starry.....				2,535	5,885	3,791	10,568	13,097	5,660				41,236
Flying Fish.....		12,568	12,879	30,422	61,340	7,846			8,686	2,130	9,380	12,823	157,784
Grouper.....							16		5	482		57	530
Hake.....	338,209	392,506	303,638	204,039	91,203	196,025	178,438	170,047	93,683	179,405	153,198	199,863	2,500,304
Halibut, California*.....	1,656	93	1,985	1,047	85,032	84,840	124,263	46,921	9,033	2,668	133	705	358,376
Halibut, Northern.....				5,837	393					1,013	1,286	943	33,676
Hardhead.....													
Herring, Pacific.....	302,257	95,172	1,820	560	1,200	5,755	1,169	29,943	45,709	31,983	24,728	69,647	481,776
Kingfish.....	26,846	28,443	31,363	32,267	20,468	86,578	63,729	58,918	1,407,102	628,674	1,489,593	14,966	437,023
Mackerel, Jack.....	825,425	777,315	29,214	14,590	16,053	66,094	5,528	58,918	12,704,649	8,642,676	10,391,187	9,776,755	15,093,261
Mackerel, Pacific.....	2,646,770	572,821	295,205	182,570	413,782	256,579	165,977	373,372	901	432	2,499	17,255,005	53,875,283
Mackerel, Spanish.....		234			297	233							6,390
Mullet.....	11,967	19,192	18,514	8,634	17,373	4,880		1,166					84,335
Parr.....	15,448	12,231	41,565	53,595	510	281	18,051	12,857	8,684	8,932	3,217	17,254	192,626
Pike.....		12	40	47								21	123
Pompano, California.....	7,394	5,889	8,600	4,800	6,509	2,542	6,085	6,481	5,832	18,559	3,939	10,173	86,693
Rock Bass.....	5,495	19,380	11,671	9,692	10,102	35,126	27,797	20,081	12,090	23,084	17,124	15,950	207,512
Rockfish.....	498,975	1,046,332	668,945	1,102,897	1,599,023	1,009,325	973,068	1,019,745	1,229,397	1,094,177	236,783	704,059	11,173,326
Sablefish.....	90,273	93,453	80,312	190,915	300,767	357,174	439,347	366,256	330,733	234,273	62,567	89,062	2,659,132
Salmon.....	9,634	96,271	208,076	1,477,796	2,490,932	940,203	2,023,292	2,058,437	4,320,790	29,840	1,166	1,704	13,688,201
Sand Dab.....	57,392	53,384	62,396	76,396	55,113	39,273	44,355	44,355	55,489	71,505	31,661	78,182	679,072
Sardine.....	69,412,527	18,230,876	1,043,253	636,716	288,676	788,519	1,996,404	12,585,930	24,098,758	184,910,118	99,525,641	97,241,755	510,759,173
Seulpin.....	11,288	16,929	16,771	35,306	14,152	1,209	18,084	12,813	2,208	5,363	2,413	8,518	145,084
Sea-bass, Black.....	7,394	31,113	19,406	14,651	7,854	21,133	8,132	4,535	104,449	83,389	42,675	87,805	432,586
Sea-bass, White.....	10,052	27,57	21,080	14,275	31,595	67,340	96,752	140,983	92,634	72,013	23,029	18,598	615,921
Shad.....				244,841	487,806	1,086							771,231
Shark.....	240,804	47,943	41,991	165,979	176,833	190,098	152,771	161,746	101,211	93,870	64,328	167,773	1,605,347
Sheepshead.....	29,859	32,444	17,567	12,911	4,855	4,296	4,839	4,864	11,691	40,275	39,411	64,108	267,130

Skate-----	12,041	9,658	8,639	7,506	3,959	736	707	1,459	2,446	6,581	8,622	15,684	78,038
Smelt-----	48,812	165,566	109,807	113,166	37,008	75,035	45,954	42,006	43,168	52,610	36,229	23,730	793,091
Sole-----	562,986	590,325	497,289	812,448	1,024,756	1,205,977	1,416,996	685,244	1,302,828	1,223,945	250,652	995,157	10,508,603
Split-tail-----	464	215	105	46	384	---	---	634	964	17	40	---	2,869
Sucker-----	---	---	---	---	---	---	335	---	---	---	---	---	335
Swordfish, Broadbill-----	---	---	---	---	---	4,520	45,639	283,071	297,033	203,443	25,248	96	859,050
Tuna, Albacore-----	---	---	---	---	---	424,082	8,104,357	7,021,380	1,394,579	1,098,871	94,981	588	18,068,338
Tuna, Bluefin-----	642,302	764,628	487,353	493,744	2,161,016	6,066,524	5,723,411	4,054,751	1,140,701	476,004	1,284	20,030	22,091,748
Tuna, Bonito-----	78,851	99,357	30,360	10,209	13,228	43,370	15,104	1,330,501	1,623,690	782,579	591,001	982,123	5,625,553
Tuna, Skipjack-----	446,051	536,531	346,651	2,935,679	2,621,957	4,265,359	5,032,206	5,790,975	9,686,560	5,883,726	1,311,540	2,250,760	41,087,994
Tuna, Yellowfin-----	6,909,959	4,902,996	6,535,273	12,749,361	15,770,097	23,194,328	11,830,661	3,918,736	7,168,360	9,078,559	7,443,908	17,734,337	127,246,675
Turbot-----	1,709	1,709	5,349	8,092	1,312	3,955	427	4,681	1,266	6,657	1,574	10,660	49,801
Whitebait-----	51,808	36,774	54,275	70,766	36,120	39,578	25,216	8,560	1,135	1,089	8,326	3,590	344,107
Whitefish, Ocean-----	6,578	14,676	10,265	10,569	4,462	915	929	830	830	1,235	3,222	3,590	57,271
Yellowtail-----	130,854	1,023,890	202,008	401,272	208,762	435,648	554,571	712,238	184,582	367,744	172,680	167,336	4,561,553
Miscellaneous Fish-----	14,959	5,224	31,290	12,939	12,090	9,502	21,234	11,086	16,888	17,668	12,538	10,582	176,000
Crustacean:													
Crab-----	695,853	738,168	847,889	1,783,248	1,866,024	865,376	688,885	317,747	3,125	5,352	920,311	912,427	9,644,405
Lobster, Spiny-----	232,423	178,201	269,801	9,425	---	---	---	---	---	277,288	429,721	520,722	1,917,581
Shrimp-----	24,594	25,154	46,410	40,043	31,027	36,454	39,265	49,357	68,238	22,583	17,961	36,234	437,320
Mollusk:													
Abalone-----	63,244	---	101,636	199,147	408,207	89,160	358,164	244,906	214,819	191,093	33,907	191,479	2,095,762
Clam, Pismo-----	1,602,673	1,364,146	808,817	39,564	106,361	1,332,421	2,647,229	1,406,798	455,010	501,094	631,502	622,058	11,477,673
Clam, Soft-shell-----	805	1,074	1,660	2,142	2,031	1,688	2,145	2,746	2,121	2,534	1,817	1,476	22,239
Clam, Washington-----	2,740	3,016	1,378	9,916	490	---	---	---	1,086	549	743	423	20,341
Mussel-----	---	---	---	---	---	---	---	---	---	52	352	235	639
Octopus-----	2,546	2,372	2,296	4,126	4,498	5,013	5,358	2,538	2,326	1,795	1,535	3,528	37,931
Oyster, Eastern-----	8,295	7,955	8,885	7,447	7,178	5,239	5,266	5,159	3,006	5,374	9,344	11,452	84,603
Oyster, Pacific-----	9,075	7,935	8,250	7,065	10,778	8,115	8,775	8,993	10,090	2,820	3,135	3,645	88,006
Squid-----	775	13,700	---	3,397,409	11,141,892	10,833,668	7,346,495	1,581,720	973,576	1,543,978	704,911	420,404	38,024,528
Total pounds-----	86,420,921	32,545,810	13,927,556	28,150,908	42,416,700	53,970,778	50,891,133	45,127,486	70,161,842	218,590,829	125,542,227	151,587,953	919,334,143

This table includes actual landings at California ports by the commercial fishing fleet as well as shipments from other states and foreign countries by truck, rail and ocean liner to California canneries and to the fresh fish dealers. For detail see page 38.

* See footnote a, Table 39.

TABLE 41
COMMERCIAL FISH LANDINGS IN THE EUREKA REGION DURING 1946
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific.....	14,661	36,078	15,660	74,022	95,796	115,596	143,169	111,617	130,545	81,003	7,873	57,400	883,420
Flounder, Starry.....	1,782	21,019	3,502	35,646	13,628	15,982	21,467	30,144	31,236	42,541	1,354	23,809	247,110
Hake.....	950	93	613	498	84,858	84,840	124,263	46,921	9,033	2,650	133	705	355,557
Halibut, Northern.....	3,812	13,658	11,711	14,766	1,738	1,738	1,738	2,845	420	231	---	---	17,470
Herring, Pacific.....	3,078	4,695	464,955	980,366	1,205,099	905,388	929,702	876,483	1,022,845	678,817	101,851	512,937	40,734
Rockfish.....	330,590	821,561	25,324	88,757	229,103	283,512	370,288	307,139	314,430	220,419	36,556	50,224	8,830,594
Sablefish.....	20,608	32,024	---	161,749	771,141	558,904	1,424,532	1,159,570	438,301	29,840	---	---	1,978,384
Salmon.....	---	---	22,797	51,461	36,060	25,119	40,528	29,892	32,879	35,016	12,925	34,417	4,544,037
Sand Dab.....	24,149	28,359	40	1,835	6,738	3,279	1,547	---	17	---	---	---	373,602
Sea bass, White.....	157	141	322	69	160	2,490	3,619	3,635	10,582	14,089	5,334	199	13,953
Shark.....	154,346	2,326	---	769	2,153	---	---	300	200	100	110	---	240,783
Skate.....	---	---	---	10,754	4,466	15,159	13,761	17,094	5,526	4,054	---	---	3,632
Smelt.....	163,428	4,981	11,507	535,787	797,947	1,084,717	1,295,279	560,586	1,067,751	891,665	55,684	529,812	96,302
Sole.....	---	263,514	213,664	---	---	---	18,922	4,755	5,198	30,037	---	---	7,489,734
Tuna, Albacore.....	---	---	665	1,036	1,007	3,955	427	3,701	87	140	---	195	58,912
Turbot.....	609	254	---	69,971	35,740	24,604	24,604	8,524	1,123	111	---	---	12,376
Whitebait.....	23,677	21,764	53,320	393	1,942	39,417	8,515	8,203	2,308	1,363	7,254	3,476	278,251
Miscellaneous Fish.....	10,270	874	26,820	---	---	4,920	---	---	---	---	---	---	76,368
Crustacean:	---	---	---	---	---	---	---	---	---	---	---	---	---
Crab.....	130,256	248,784	606,875	1,582,431	1,724,971	721,805	532,933	224,681	45	---	690	48,927	5,822,398
Mollusk:	---	---	---	---	---	---	---	---	---	---	---	---	---
Clam, Washington.....	2,740	3,016	1,378	9,916	490	---	---	---	1,086	549	743	423	20,341
Octopus.....	707	1,238	692	1,781	2,088	3,414	4,090	2,425	1,172	897	184	198	20,212
Squid.....	---	---	---	---	---	---	---	---	---	---	---	---	198
Total pounds.....	885,820	1,504,379	1,460,145	3,631,007	5,013,287	3,868,497	4,959,400	3,398,515	3,074,789	2,034,004	260,691	1,314,364	31,404,898

TABLE 41—Continued
Fishing Boat Landings From Waters North of the State Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Cultus, Pacific		853	1,969		5,558	896		747	14,304	4,366		469	29,162
Flounder, Siary		365								51			416
Rockfish	4,500	55,312	104,032		216,037	17,576		19,666	83,956	144,105		1,074	646,288
Sablefish					1,767	3,647		3,180	6,194	12,104		5,922	32,814
Sand Dab												635	635
Shark		49	18		39			87	842	285		483	1,803
Sole		2,949	1,970		119,237	12,670		18,807	49,074	31,419		35,662	271,788
Tuna, Albacore								2,434					2,434
Turbot										1,710			1,710
Miscellaneous Fish		180	10		20					20			230
Total pounds	4,500	59,708	107,999		342,658	34,789		44,951	154,370	194,060		44,245	987,280
Grand totals, Eureka Region	890,320	1,564,087	1,568,144	3,631,007	5,555,945	3,903,286	4,959,400	3,443,466	3,229,159	2,228,064	260,691	1,358,609	32,392,178

TABLE 42
COMMERCIAL FISH LANDINGS IN THE SACRAMENTO REGION DURING 1946
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Carp.....	2,028	1,713	5,130	17,859	8,927	2,637	-----	544	30,862	20,547	9,937	3,091	103,275
Catfish.....	42,032	23,142	27,226	37,451	4,497	-----	-----	-----	30,983	86,001	93,540	57,074	401,946
Hardhead.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,013	1,286	943	3,242
Pike.....	-----	12	40	47	-----	-----	-----	-----	-----	3	-----	21	123
Salmon.....	9,634	96,271	208,076	666,511	1,187,111	132,114	-----	487,022	3,673,636	-----	1,166	1,704	6,463,245
Sardine.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	305,000	305,000
Shad.....	-----	-----	37,488	244,941	487,806	1,096	-----	-----	-----	-----	-----	-----	771,231
Split-tail.....	464	215	105	46	384	-----	-----	634	964	17	40	-----	2,869
Miscellaneous Fish.....	-----	-----	-----	-----	-----	-----	-----	-----	35	-----	-----	-----	35
Grand totals, Sacramento Region.....	54,158	121,353	278,065	966,755	1,688,725	135,847	-----	488,200	3,736,480	107,581	105,969	367,833	8,050,966

COMMERCIAL FISH LANDINGS IN THE SAN FRANCISCO REGION DURING 1946

Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....	97	270	133	13,276	81,650	38,615	27,300	37,475	32,450	31,810	1,200	-----	263,776
Cabazon.....	3,271	20,026	12,551	18,787	10,995	5,897	40	-----	44	70	50	-----	2,805
Carp.....	-----	684	-----	-----	-----	-----	-----	-----	-----	332	132	-----	71,941
Catfish.....	12,946	12,329	11,795	21,962	26,883	7,820	3,994	17,889	24,730	25,885	3,692	23,600	80
Culms, Pacific.....	28,803	45,622	27,918	20,081	1,979	70	2,529	5,008	23,320	24,218	10,844	19,507	199,967
Flounder, Starry.....	13,439	2,143	1,470	2,567	551	441	314	425	904	1,817	1,450	18,452	210,887
Halibut, California*.....	706	7,924	1,372	949	174	-----	-----	-----	-----	18	-----	-----	49,973
Halibut, Northern.....	5,051	81,229	5,837	5,837	393	-----	-----	-----	-----	50	4,146	-----	2,819
Headhead.....	298,445	1,820	1,820	70	135	3,525	2,170	401	1,019	312	17	68,877	30,434
Herring, Pacific.....	55	20	30	38	38	3,418	3,547	3,315	4,552	4,302	839	4,025	455,447
Kingfish.....	6,549	2,883	22,818	19,596	-----	177	122	106	10	19,783	6,236	15,260	8,113
Perch.....	32,494	22,201	31,843	24,694	31,460	7,844	4,739	8,684	15,885	-----	67	-----	72,426
Pompano, California.....	5,288	10,806	7,197	31,820	23,578	14,365	3,328	1,239	1,798	-----	345	63	492
Sablefish.....	-----	-----	-----	434,740	342,003	170,692	520,109	403,052	208,853	33,321	-----	-----	221,123
Salmon.....	24,227	14,676	34,272	20,523	15,658	9,975	11,470	11,511	20,961	-----	-----	40,101	2,079,449
Sand Dab.....	-----	1,070,680	2,215	2,215	41,423	24,900	350	215,150	789,000	-----	15,965	3,952,320	232,660
Sardine.....	6,711	155	93	1,114	19,913	57,850	24,005	1,725	5,739	4,861	324	549	20,157
Sea-bass, White.....	31,743	6,870	7,301	1,125	400	200	-----	28,545	20,743	7,222	11,000	30,487	246,793
Shark.....	2,125	1,265	4,190	2,125	26,397	46,699	8,766	800	1,656	2,600	3,923	11,844	31,128
Skate.....	18,519	150,049	90,039	83,044	26,397	46,699	8,766	3,832	8,906	7,706	7,113	11,246	462,316
Smelt.....	347,134	263,609	215,141	215,791	68,608	79,620	83,671	86,235	168,155	281,710	148,437	397,077	2,355,188
Sole.....	4,107	1,455	4,384	6,345	305	-----	-----	16	2,151	8,810	-----	-----	10,977
Tuna, Albacore.....	27,931	15,010	955	795	362	89	597	980	1,179	4,807	1,574	8,668	33,804
Turbot.....	768	249	500	7,934	3,993	515	117	36	559	964	8,326	10,660	65,751
Miscellaneous Fish.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,369	2,167	19,135
Crustacean:	557,822	483,276	237,494	198,261	140,405	141,499	154,326	89,267	-----	4,625	886,443	854,736	3,748,144
Crab.....	24,350	24,146	45,100	39,841	31,027	36,080	39,125	49,357	67,825	22,037	17,252	36,005	432,145
Shrimp.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mollusk:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Abalone.....	805	1,074	1,660	2,142	2,031	1,688	2,145	4,650	6,983	3,528	1,817	1,476	15,161
Clam, Soft-shell.....	1,534	898	1,465	1,863	1,204	1,240	1,014	72	2,121	2,534	565	1,176	22,239
Octopus.....	8,265	7,958	8,885	7,447	7,178	5,239	5,266	5,159	3,006	266	9,344	11,452	11,499
Oyster, Eastern.....	600	525	-----	600	-----	-----	-----	-----	-----	5,374	-----	-----	84,603
Oyster, Pacific.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1,725
Grand totals, San Francisco Region.....	1,463,795	2,249,317	787,665	1,184,986	879,327	658,488	899,044	977,675	1,412,763	503,129	1,154,448	5,520,588	17,690,225

* As reported by buyers. However, field investigations indicate that almost all landings at San Francisco are northern halibut.

TABLE 44
COMMERCIAL FISH LANDINGS IN THE MONTEREY REGION DURING 1946
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy.....		25,030				2,600	1,270	770	95,000	119,736	2,000	1,690	248,096
Cabezone.....	1,713	340	373	821	401	40	36	78		22	50	1,130	5,004
Carp.....													57,750
Cultus, Pacific.....	494	1,798	523	3,317	3,142	734	1,715	6,684	1,280	1,066	4,088	6,563	31,384
Flounder, Starry.....	6,543	13,714	5,092	2,345	538	3,075	1,545	711		1,116	2,809	11,895	49,391
Halibut, California.....	21,091	20,883	15,425	24,693	6,469	32,389	22,406	13,873	6,206	1,580	3,471	41,179	209,665
Herring, Pacific.....				400	1,200	2,230	1,169						5,089
Kingfish.....	15,615	12,078	7,626	4,073	7,869	81,666	52,032	22,720	39,214	22,277	11,007	5,528	281,695
Mackerel, Jack.....	15,967	1,168	17,996	10,810	8,372	6,802	865	12,465	329,575	98,746	699	6,661,176	7,161,638
Mackerel, Pacific.....	18,210	248	445	1,125	1,008	28,012	24,147	15,451	1,679,856	150,721	3,025	830	1,923,078
Perch.....	1,339	534	452	13,787	100		4,288	46	377	350	534	1,208	23,015
Pompano, California.....	345	545	4,811	3,924	4,939	2,365	2,936	4,365	3,302	15,881	462	181	44,056
Rockfish.....	73,329	91,374	25,921	60,276	89,994	68,315	34,241	102,558	98,282	205,555	135,101	135,020	1,119,966
Sablefish.....	61,339	48,556	51,216	68,310	46,139	54,958	64,635	54,612	8,215	20,767	24,894	29,741	533,382
Salmon.....				213,613	189,785	78,908	78,651	8,793					569,350
Sand Dab.....	6,113	5,854	3,740	3,078	2,266	3,517	1,825	2,807	1,516	2,538	2,528	2,215	37,997
Sardine.....	14,125,575	366,890	1,765	93,421	104,867	752,760	1,995,924	12,309,104	22,763,371	11,247,322	2,986,853	4,994,529	71,742,381
Sea-bass, White.....	20	44	66	33	38	242	35,088	15,930	77	218	1,356	1,356	53,112
Shark.....	13,725	6,160	3,139	1,396	2,297	8,318	13,840	37,938	7,369	160	1,934	28,590	124,866
Skate.....	8,241	6,222	2,420	1,973		394	707	235		1,335	2,606	1,536	25,669
Smelt.....	115	235		160	505	12,245	8,767	12,959	22,252	14,729	19,602	3,183	94,782
Sole.....	33,875	37,146	46,160	34,272	982	7,263	9,932	8,316	238,981	7,615	11,128	21,318	218,296
Tuna, Albacore.....										10,629			249,610
Turbot.....				711								1,200	1,911
Whitebait.....					18	72	15		95				105
Miscellaneous Fish.....	68					107	25				52	20	367
Crustacean:													
Crab.....	7,404	5,681	3,030	2,118	648	170	574	1,832			32,390	8,419	62,266
Shrimp.....	244	1,008	1,310	202		374	140		413	546	709	229	5,175
Mollusk:													
Abalone.....	11,925		10,034	18,720	33,450	5,413	37,244	47,088	30,347	8,847	9,147	6,363	218,578
Clam, Pismo.....	424	599	779	714					489	753	568	551	4,877
Mussel.....										52	352	235	639
Octopus.....		128	107	316	975	359	254	41	952	632	786	816	5,607
Squid.....	241			3,397,409	11,141,892	10,833,668	7,346,495	1,581,720	973,443	1,543,978	764,911	419,196	38,002,712
Grand totals, Monterey Region.....	14,423,935	646,208	202,408	3,962,140	11,647,889	11,986,382	9,763,670	14,280,284	26,313,762	13,477,080	4,021,904	12,385,897	129,111,509

Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy					685	760	2,850	833	270	100			4,998
Baracuda	2,167			351	10		15	555	105			521	3,724
Cutlus, Pacific	1,053			64	248	29	31	42	427	329	1,743	4,827	8,658
Eel											289		596
Halibut, California	66,721	83,905	25,000	21,146	13,267	22,709	31,779	41,173	47,709	46,895	51,766	45,723	497,793
Kingfish		1,063	227	210	177		49	1,198	1,198	2,543	2,573	980	9,020
Mackerel, Pacific						1,122	843	6,947	797	193	200	30	10,132
Perch	630	803	589	297	8	242	816	600	188	1,036	546	976	6,731
Pompano, California										20	80		100
Rock Bass	811	1,377	881	112	374	7,874	4,375	4,737	787	86	284	842	22,540
Rockfish	7,342	15,386	20,298	12,415	10,874	3,918	2,762	10,223	3,420	7,025	4,964	8,907	107,554
Salmon				1,158	892	45							2,120
Sand Dab								100	85	89			328
Sardine					50						125		176
Seulpin	105	280	147	8						374		115	1,029
Sea-bass, Black	389	353	25	186		92	40	258	234	187	226	308	2,298
Sea-bass, White	9,040	21,743	19,221	6,982	8,068	13,951	34,010	35,077	23,392	13,012	17,180	11,263	206,899
Shark	3,949	9,964	6,012	28,839	73,865	59,952	54,545	21,275	8,855	10,337	11,293	18,220	310,106
Sheepshead	21,400	18,296	5,986	6,893	794		2,962	594	113	620	4,761	18,535	81,433
Skate						134		124					258
Smelt	742	1,555	110	1,013	778	879	3,126	65	113	14	631	87	9,113
Sole	17,501	22,750	19,654	23,541	37,961	21,511	28,106	11,210	17,513	10,920	5,346	11,181	227,194
Swordfish, Broadbill						432	1,897	52,522	56,501	30,608	2,819		144,779
Tuna, Albacore						96	690	50,097	19,337	20,753	939		91,912
Tuna, Bluefin				102				19,290	13		47		19,452
Tuna, Bonito	992					110	105		50		1,291	1,196	3,744
Tuna, Skipjack									93	30			123
Tuna, Yellowfin								151					575
Whitefish, Ocean	1,721	3,026	715	233	76						438	401	6,670
Miscellaneous Fish	535	900	853	1,420	3,878	1,846	10,993	1,601	2,082	2,093	2,297	2,675	31,173
Crustacean:													
Crab		180		338							38		556
Lobster, Spiny	17,892	15,821	9,268							28,030	33,376	48,439	152,826
Mollusk:													
Abalone	48,135		89,858	171,575	368,623	75,596	312,996	180,346	173,272	177,820	24,760	182,400	1,802,881
Clam, Fismo	2,169	3,467	3,862	4,730	7,465	9,613	7,909	8,646	5,425	3,455	4,542	2,987	64,300
Octopus	24			166	151								372
Oyster, Pacific	8,475	7,410	8,250	6,465	10,778	8,115	8,775	8,393	10,020	2,820	3,135	3,645	86,281
Squid									133				133
Grand totals, Santa Barbara Region	211,843	208,755	210,456	288,329	537,079	226,115	509,674	454,359	372,132	359,419	175,724	364,672	3,918,557

DIVISION OF FISH AND GAME

TABLE 46
COMMERCIAL FISH LANDINGS IN THE LOS ANGELES REGION DURING 1946
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchorovy	111,252	8,885	10,876	53,176	45,115	13,467	73,074	67,668	192,515	153,844	254,150	420,320	1,404,342
Barracuda	39	5,254	64,201	111,252	170,985	172,879	223,518	122,405	10,913	3,461	7,483	6,994	899,384
Carp	17	78	12	278	500	682	514	649		6	345	196	2,345
Cultus, Pacific	57	27	37	3	123	664	515	11	37	95		19	1,644
Flounder, Starry				2,535	5,585	3,791	10,568	13,097	5,660				41,236
Flying Fish	206,306	173,291	141,397	71,297	28,077	24,969	7,545	6,192	12,756	32,045	26,205	27,377	757,457
Halibut, California	10,669	15,182	23,440	27,825	98,077	582	9,378	6,822	3,983	5,586	10,251	7,356	133,401
Kingfish	809,458	776,150	11,218	3,780	7,681	59,292	4,863	44,453	1,080,527	529,928	1,488,894	3,115,579	7,931,623
Mackerel, Jack	2,627,457	572,188	294,760	143,047	386,689	132,733	118,693	336,107	11,022,155	8,471,722	10,350,325	17,246,813	51,702,719
Mackerel, Pacific		4,612											4,612
Mullet													4,612
Perch	3,852	3,316	5,995	5,150	402	39	7,662	5,901	2,887	3,013	1,298	9,795	49,310
Pompano, California	7,049	5,244	3,869	876	1,370		3,027	2,010	2,520	2,658	3,226	9,992	41,941
Rock Bass	786	794	1,284	2,026	5,884	14,470	10,381	6,948	3,604	8,517	4,550	8,656	67,900
Rockfish	43,184	31,098	16,092	18,067	25,693	4,163	1,164	2,093	2,368	2,302	6,509	22,749	175,482
Sablefish	3,058	2,067	575	2,228	180	662	1,096	86	96	983	772	3,112	14,915
Sand Dab	2,907	4,495	1,587	1,334	1,129	662		45	48	541	288	814	14,915
Sardine	55,246,952	16,793,306	1,041,488	541,080	142,336	10,770	18,084	61,523	543,030	171,319,668	92,324,909	85,927,005	423,992,067
Sculpin	8,936	10,071	9,249	25,730	12,164	1,209	1,094	12,404	4,118	2,382	1,347	6,304	109,398
Sea-bass, Black	185	319	133	249	1,082	417	1,094	1,352	10,903	1,754	1,483		18,041
Sea-bass, White	184	2,202	1,082	3,724	14,187	18,302	45,229	25,705	6,398	6,522	2,505	1,494	128,194
Shark	22,278	20,606	11,631	94,954	73,168	47,746	46,040	60,406	44,703	41,920	20,432	26,052	510,296
Sheepshead	6,349	7,563	3,255	4,465	3,070	2,095	1,151	3,418	11,210	28,256	26,239	38,132	135,113
Skate	1,675	2,171	2,029	2,639	1,406	8			500	2,546	1,983	2,304	17,351
Smelt	29,436	8,746	8,151	9,195	4,812	53	11,534	8,026	6,371	26,107	8,883	9,214	130,578
Sole	1,048	357	593	2,869	121	196	335	90	46	616	34	107	6,085
Sucker													335
Swordfish, Broadbill													345,157
Tuna, Albacore						3,651	15,002	63,085	116,547	127,172	19,604	96	5,119,650
Tuna, Bluefin						385,638	1,456,392	1,827,297	638,387	751,574	64,295	97	5,119,650
Tuna, Bonito	248	207,838	211,251	1,914,502	5,119,830	2,034,470	2,796,443	2,796,443	1,070,251	9,150	20		14,233,764
Tuna, Skipjack		32	114	110	1,324	1,013	2,924	5,493	451,131	9,674	2,097	563	474,123
Tuna, Yellowfin						11		36,835	781,701	289,068	22,507		1,130,122
Whitefish, Ocean	2,599	2,851	4,435	5,481	3,155	649		38,876	4,053	105	658	1,363	23,683
Yellowtail	48	175	78	61	61	107	253	53	330	342	342		21,163
Miscellaneous Fish	3,254	2,995	2,943	3,991	1,687	1,890	882	2,453	330	151	100		3,756
Crustacean:								946	10,955	12,738	1,450	880	43,711
Crab													
Lobster, Spiny	371	247	490	100		1,902	1,052	1,967	3,080	727	750	355	11,041
Mollusk:													416,501
Abalone	12,004	13,253	3,919							140,872	119,059	127,394	
Goropus													
Squid	3,184	7	2,244	8,852	8,134	8,151	7,924	12,822	4,217	898		2,716	59,142
	40	7	32		80							12	241
	775	13,700										7,040	21,480

COMMERCIAL FISH CATCH OF CALIFORNIA

77

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda	68,068	73,780	140,763	1,656	1,241	60,888	83,304	58,575	95,112	64,451	148,604	91,111	888,162
Cabrilla	3,353	36,916	19,471	4,951	10,165	1,544	831	---	93	2,004	18,481	36,079	133,888
Grouper	---	8,852	---	3,242	19,657	274	---	---	75	244	2,419	10,540	45,303
Halibut, California	---	---	22,049	23,549	25,758	40,644	45,746	50,975	3,169	13,159	24,893	39,883	289,825
Mackerel, Spanish	---	171	---	---	---	58	---	---	398	410	1,586	820	3,443
Rock Bass	250	11,737	4,522	815	1,206	858	150	68	1,941	474	2,878	2,062	26,961
Rockfish	---	1,010	167	---	---	---	---	---	---	77	---	---	1,269
Sea-bass, Black	4,393	7,361	4,677	7,348	279	8,591	4,684	---	47,073	44,356	28,280	57,286	214,328
Sea-bass, White	---	3,269	---	512	142	33	1,002	---	18,591	2,816	1,948	852	29,165
Shark	---	11	9,704	---	---	---	245	---	1,652	---	---	2,448	14,060
Sheepshead	---	2,626	2,930	1,466	57	---	80	---	---	487	205	355	8,206
Swordfish, Broadbill	---	---	---	---	---	---	2,515	7,403	---	---	2,334	---	12,252
Tuna, Albacore	---	---	---	---	---	1,662	775,077	984,958	30,334	672	1,951	166	1,704,820
Tuna, Bluefin	642,302	556,790	487,353	247,611	62,555	360,281	2,379,628	891,733	70,363	465,339	---	---	6,163,655
Tuna, Bonito	7,300	92,251	2,400	1,881	245	---	10,592	1,268,312	869,159	412,243	146,268	---	2,951,837
Tuna, Skipjack	113,038	33,402	93,182	2,356,471	1,444,867	1,869,692	2,405,359	2,604,852	2,082,281	969,291	153,873	211,496	14,795,258
Tuna, Yellowfin	1,407,595	819,978	1,370,477	6,510,244	7,921,179	11,836,708	4,689,118	1,690,236	1,706,531	1,242,731	478,923	3,034,199	42,707,919
Whitefish, Ocean	---	5,945	892	4,453	315	---	---	---	---	242	---	963	12,810
Yellowtail	60,725	278,241	62,694	364,033	127,393	357,627	448,554	574,050	66,338	40,630	24,064	26,274	2,430,603
Miscellaneous Fish	---	26	---	---	540	28	389	---	512	6	86	382	1,989
Crustacean:	---	---	---	---	---	---	---	---	---	---	---	---	---
Lobster, Spiny	---	---	---	---	---	---	---	---	---	1,531	50,554	74,036	126,121
Total pounds	2,307,114	1,892,375	2,221,281	9,527,832	9,515,299	14,538,888	10,847,834	8,131,162	4,903,622	3,261,103	1,087,422	4,257,922	72,651,854

Shipments to Canneries From South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Skipjack	10,253	---	1,283	---	---	66,010	---	---	91,536	---	---	---	169,082
Tuna, Yellowfin	13,795	---	229,830	---	---	7,974	---	---	163,125	---	---	5,398	420,122
Mollusk:	---	---	---	---	---	---	---	---	---	---	---	---	---
Clam, Pismo	1,600,080	1,360,080	894,176	34,120	158,896	1,322,808	2,539,320	1,398,152	449,096	11,960	---	---	9,678,688
Total pounds	1,624,128	1,360,080	1,035,289	34,120	158,896	1,396,792	2,539,320	1,398,152	703,757	11,960	---	5,398	10,267,892
Grand totals, Los Angeles Region	63,136,881	21,911,618	4,924,916	10,918,734	12,647,372	21,968,339	18,400,726	15,049,182	21,742,949	185,260,006	105,859,082	111,294,180	593,113,985

TABLE 47
COMMERCIAL FISH LANDINGS IN THE SAN DIEGO REGION DURING 1946
Fishing Boat Landings From California Waters

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Anchovy								165	280				415
Baracuda		758	58	59,855	183,913	386,619	58,373	37,383	1,070	764	1,857	2,377	733,027
Cutts, Pacific	256	35	113	282	366			976					2,028
Halibut, California	23,729	12,610	11,195	60,787	1,708	1,931	2,454	3,560	1,824	33,635	29,477	20,569	203,509
Herring, Pacific												770	770
Kingfish	507	100		121		922	100		295	1,265	880	604	4,794
Mackerel, Pacific	1,073	85		8,398	26,085	94,712	22,294	19,867	1,841	20,040	37,637	7,332	239,364
Mullet	11,967	14,580	18,514	8,634	17,373	4,880		1,166				2,609	79,723
Perch								150			104		150
Pompano, California													104
Rock Bass	524	2,026	1,649	2,754	1,750	6,536	12,891	7,009	3,882	10,009	4,435	3,373	56,838
Rockfish	2,038	919	783	464	1,298	153	370	8	1,399	6,573	785	4,421	19,211
Sardine						89		153	3,357	2,343,128	4,213,667	2,062,901	8,623,425
Sculpin	2,247	6,578	7,275	9,668	1,988			46	790	2,607	1,066	2,099	34,264
Sea-bass, Black			639	108	160	217	101	504	2,391	600	1,042	199	5,961
Sea-bass, White		40		1,156	2,377	31,211	2,142	6,891	2,770	1,965	588	194	49,334
Shark		1,957	3,564	30,307	7,391	16,742	9,385	9,800	6,358	19,817	13,293	17,495	144,872
Sheepshead	1,666	2,645	433	87	635	821	54	156	144	6,538	5,163	6,124	24,466
Sole			107	188							23		318
Swordfish, Broadbill						310	3,209	10,570	85,874	31,547	491		132,001
Tuna, Albacore						29,471	2,382,606	779,956	180,435	172,529	27,007		3,572,396
Tuna, Bluefin					152,150	578,533	168,713	374,656		753	1,208	92	1,276,013
Tuna, Bonito	5,886	2,809		19	792	21,347	1,177	26,014	17,732	25,383	2,412	1,415	104,986
Tuna, Skipjack	80							87,654	382,766	107,792	36,879	1,644	616,815
Tuna, Yellowfin									8,286	85	24		8,395
Whitefish, Ocean		595											595
Yellowtail	107	691	2,681		2,526	10,786	5,734	2,450	1,649	373	804	338	1,737
Miscellaneous Fish	64		164	76	30	46			307	244	30	3	27,529
Crustacean:													
Lobster, Spiny	7,085	7,082	1,686							55,564	25,718	22,352	122,487
Total pounds	65,992	53,510	48,861	182,804	400,542	1,185,326	2,670,033	1,369,164	703,420	2,844,211	4,405,122	2,156,911	16,085,896

TABLE 47—Continued
Fishing Boat Landings From Waters South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Barracuda.....	12,366	85,067	114,076	32,685	10,054	2,732	160	5,578	192,413	91,801	19,163	15,823	582,218
Cabrilla.....	---	18,692	41,243	21,011	3,051	19,005	---	---	6,124	2,437	13,404	2,744	127,801
Grouper.....	---	3,716	12,879	27,180	41,683	7,572	---	---	8,611	1,876	6,961	1,983	112,461
Halibut, California.....	6,923	99,674	81,152	---	15,373	72,942	68,194	53,819	21,115	50,274	15,936	6,680	492,082
Mackerel, Spanish.....	63	---	---	---	297	175	---	---	503	22	913	974	2,947
Perch.....	---	---	---	---	---	---	---	---	260	---	---	---	260
Rock Bass.....	3,124	3,446	3,335	3,985	888	5,388	---	1,269	1,876	3,968	4,977	1,017	33,273
Rockfish.....	5,498	7,471	4,854	6,615	19,168	1,968	90	---	1,242	---	1,262	3,691	51,859
Sculpin.....	---	---	---	---	---	---	---	363	---	---	---	---	363
Sea-bass, Black.....	2,427	23,080	13,932	6,720	6,333	11,816	2,213	2,391	43,848	36,492	12,644	30,012	191,908
Sea-bass, White.....	---	---	---	---	50	526	12,580	36,437	19,797	42,760	266	2,691	115,107
Shark.....	---	---	9,300	---	---	---	1,092	---	107	40	1,042	187	11,768
Sheepshead.....	354	1,314	4,963	---	299	1,381	592	696	224	4,374	3,043	662	17,902
Swordfish, Broadbill.....	---	---	---	---	---	127	23,016	149,491	38,111	14,116	---	---	224,861
Tuna, Albacore.....	---	---	---	---	---	7,215	3,470,370	3,375,897	279,756	33,367	789	---	7,167,627
Tuna, Bluefin.....	---	---	---	34,780	32,109	7,880	240,600	2,629	74	362	---	20,030	338,864
Tuna, Bonito.....	64,335	74,445	47,846	8,599	15,867	20,900	906	30,682	285,618	335,279	438,933	767,453	2,090,863
Tuna, Skipjack.....	281,074	503,129	252,186	579,208	1,177,090	2,329,646	2,626,867	3,061,634	6,348,183	4,497,545	1,098,281	1,580,146	24,334,989
Tuna, Yellowfin.....	5,090,704	4,082,651	4,934,966	6,239,117	7,857,861	11,349,497	7,141,543	2,209,473	5,286,365	7,835,638	6,964,961	14,695,340	83,688,116
Whitefish, Ocean.....	2,258	2,259	4,223	342	916	859	---	876	650	---	1,322	535	14,891
Yellowtail.....	70,022	744,910	136,458	37,161	78,782	67,126	100,650	133,385	116,265	326,590	147,984	141,062	2,099,695
Miscellaneous Fish.....	---	---	---	25	---	150	313	336	35	210	---	979	2,048
Crustacean:	---	---	---	---	---	---	---	---	---	---	---	---	---
Lobster, Spiny.....	195,442	142,045	254,928	9,425	---	---	---	---	---	48,291	201,014	248,501	1,099,646
Total pounds.....	5,734,527	5,791,962	5,907,041	7,016,153	9,256,821	13,906,995	13,688,586	9,065,156	12,651,177	13,326,493	8,932,895	17,520,743	122,801,549

TABLE 47—Continued
Shipments to Canneries From South of the International Boundary

Species	January	February	March	April	May	June	July	August	September	October	November	December	Total pounds
Tuna, Skipjack.	41,605												41,605
Tuna, Yellowfin	337,865												337,865
Mollusk:													
Clam, Pismo										484,896	626,392	618,520	1,729,808
Total pounds	439,470									484,896	626,392	618,520	2,169,278
Grand totals, San Diego Region	6,239,989	5,845,472	5,955,902	7,198,957	9,660,363	15,092,321	16,358,619	10,434,320	13,354,597	16,655,600	13,984,409	20,296,174	141,056,723

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